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*Design Temperatures for Flexible
Airfield Pavement Design*

by

Dr A F Stock

FINAL REPORT

July 1989

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Introduction

The mechanistic approach to flexible pavement design ^(1,2,3,4) recognises 2 forms of traffic induced structural damage, one being fatigue failure by cracking in the asphalt layer, the other being permanent deformation.

The criterion used for ensuring that the pavement does not fail prematurely due to fatigue in the asphalt is based upon tensile strain. It has been shown ⁽⁴⁾ that the tensile strain due to aircraft loading has a maximum value at the bottom of the asphalt layer, and it is at this depth that the strain is calculated. The position of the maximum strain relative to the aircraft wheels is dependent upon the aircraft gear configuration, the pavement thickness and stiffness, but is readily determined. Extensive laboratory fatigue tests, combined with full scale trials ^(5,6,7,8,9,10) have permitted the development of a fatigue criterion based on a limiting strain value, so that pavements can be designed to give satisfactory performance.

The parameter used as a criterion to limit permanent deformation is the vertical strain on the subgrade. The derivation of this parameter can be traced to the AASHO road test ⁽¹¹⁾ when stress, strain and deformation were calculated at several locations in the pavement and correlated with the terminal rut depth. As a result of this, and other complimentary research, the vertical strain on the subgrade was identified as the parameter which correlated, most reliably, with the development of wheel track deformation. Most mechanistic design systems, including the one developed by the Corps of Engineers for Airfield pavements ⁽⁴⁾ use this parameter, derived from an analysis of existing pavement structures of known performance. The derivation usually involved a single analysis of each pavement using a

single temperature and a typical load. Because of these simplifying assumptions the criterion is not suitable for a cumulative damage analysis.

Procedure for Computation of Fatigue Damage

The computation of damage due to repeated loading is based upon the linear summation of cycle ratios as defined by Miner's rule⁽¹²⁾. For failure, the summation of the ratio of the number of cycles of load actually applied (n) to the number of cycles of that same load to cause failure (N) must equal or exceed 1, as shown below.

$$\frac{N_1}{n_1} + \frac{N_2}{n_2} + \frac{N_3}{n_3} + \dots + \frac{N_i}{n_i} \geq 1$$

or

$$\sum_{i=1}^i \frac{N_i}{n_i} \geq 1$$

The number of cycles applied to a given pavement structure can be determined from data on aircraft movements. The number of cycles of that load to cause failure must be determined from the fatigue design criteria. This in turn involves calculating the strain in the pavement from details of the layer thickness and the temperature profile within the asphalt layer. It is also important to have detailed information on aircraft movements so that the correct combination of temperature gradient and traffic can be used to determine the number of cycles to failure.

The calculation procedure requires the following specific steps.

1. Division of the asphalt layer, in the pavement under analysis, into sublayers suitable for the computation of temperature gradients and the subsequent computation of strain.
- 2) Computation of the temperature gradient in the pavement under analysis

for the conditions relating to the time of year to be represented by the damage computation.

- 3) Transformation of the temperature data into stiffness values for use in the analysis.
- 4) Analysis of pavements for the critical asphalt strain.
- 5) Determination of the number of cycles which would cause failure at the strain level calculated in step 4 above.
- 6) Computation of damage in the pavement for each representative time period.
- 7) Development of a Damage - Temperature relationship for each pavement structure considered, assuming the asphalt layer to have a constant temperature.
- 8) Determine the "equivalent temperature" by comparing the results of step 6 with the relationship obtained in step 7.

In order to undertake the analysis outlined above, it is necessary to select appropriate layer thicknesses and properties for the pavement structure. It is also necessary to select damage models and determine traffic movement and loading data. This section will provide this background information.

Pavement Structure for Analysis

It was decided to analyse pavements with asphalt layer thicknesses of 3 inches, 5 inches and 10 inches, selected as being typical of the classes of airfield pavement.

Each pavement has been treated as a three layer structure, and in order to eliminate effects other than temperature changes, the characteristics of the base and subgrade were held constant. The base was modelled as an unbound layer 12 inches thick with a modulus of 50,000 lbs/in². The subgrade was assigned a modulus of 15,000 lbs/in².

The loading used for the computation was selected on the basis of the type of aircraft, appropriate to the class of airfield pavement, relevant to the thickness of the asphalt layer, as defined in the Corps of Engineers Airfield Pavement design procedure. For a 3 inch pavement the critical aircraft for design is the F15, for the 5 inch pavement it is the C141 and a B52 is the aircraft appropriate for the 10 inch pavement.

Traffic movement data for the five busiest TAC bases, Luke, Nellis, George, Holman and Tyndall was supplied, broken down into movements for the periods 0000 - 0600 hrs, 0600 - 1200 hrs, 1200 - 1800 hrs and 1800 - 0000 hrs as shown in Table 1.

Traffic movements on an hourly basis would have been preferred, and would have given greater precision in these computations, but the data was not available in this form.

The data in Table 1 shows that the pattern of movements within each six hour time period is similar for the five bases. Data to confirm this is shown in Table 2 which summarises the percentage of movements which can be assigned to each 6 hour period and also gives the standard deviation of that percentage for each time period. It was therefore assumed that the movements for a typical Air Force Base can be described by one pattern.

Table 3 shows the total number of movements for a year computed from the mean values and the pattern established in Tables 1 and 2. Also shown are the daily and hourly movements derived from the total assuming that movements are distributed evenly through each time period.

Two relationships are required to describe the asphaltic material for this study. The first requirement is to assign a stiffness value appropriate to the temperatures calculated in each sub-layer. The relationship used is as follows (5)

$$\begin{aligned}\text{Log } E &= 6.16 - 0.00003 T^{2.32} \\ &+ 0.074 \log f \\ &+ 0.000009 T^{2.32} \log f\end{aligned}$$

where

T = temperature ($^{\circ}\text{F}$)

f = frequency of loading (cps)

The second relationship is necessary in order to relate the maximum strain in the plane of the bottom of the asphalt layer to a number of cycles of

load which would cause failure at that strain. This relationship is usually presented in the following form (4)

$$\text{Allowable strain} = 10^{-A}$$

$$A = N + \frac{2.665 \log_{10} (E_{AC}) + 0.392}{(14.22)} - 5$$

where $N = \log_{10}$ (aircraft coverages)

E_{AC} = Modulus of the asphalt concrete.

To compute the no of coverages for a given strain this equation can be rewritten in the form

$$N = 10$$

The Computation of Temperature Gradients within the Pavement

The most effective data for a study such as is described herein is actual temperature measurement at various depths within representative pavements. Unfortunately, this data is not available for the pavements analysed for this study, in appropriate climates. It was therefore necessary to find a means of computing the temperature gradient.

After a study of two systems for calculating the variation of temperature with depth, (13,14) the method reported by Robinson (14) was selected because of the strength of the validating data.

Robinson's calculation procedure assumes a one-dimensional model of heat transfer which is solved by a finite difference method. The solution requires an initial temperature distribution within the pavement and a knowledge of the thermal properties of the materials in the pavement structure. Heat input was estimated from the data on hourly air temperatures, wind speed and cloud cover, and on a computed solar radiation intensity. This latter parameter was calculated from equations published by Iqbal (15).

Data on four locations was provided as being typical of the range in continental USA. These were Minot, Homestead, Wright-Patterson and Williams. Hourly temperature data was supplied for a "typical" 24 hour period in each month of the year. Temperature profiles were calculated for each hour for pavements with 3,5 and 10 inch thick asphalt surfaces at all locations. Thus a total of 3,456 profiles were calculated.

For convenience, the 3 inch asphalt layer was subdivided into 8 layers of equal thickness, the 5 inch into 7 layer, 6 of which were 0.75" thick and the lowest layer being 0.5" thick, and the 10 inch pavement into 6 layer of 1.5" thickness and one layer of 1" thickness.

Calculation of Damage

Tables 4 - 15 show the computation of damage for the structures at each base. It will be noted that some time periods have been omitted, this is because of computational errors. In view of the very large number of analysis necessary for this study an automated system was developed. On completion of the computation it was discovered that some of the files had been corrupted. Checks were performed to ensure that the remaining files were in fact correct. It was not possible to correct those found to be in error.

Tables 16, 17 and 18 show the computation of damage for the 3, 5 and 10 inch pavements at each base, assuming constant temperature throughout the asphalt layer.

Finally, Tables 19, 20 and 21 show the computation of the conversion factor for the 3, 5 and 10 inch pavements respectively at each location.

Figures 1-9 plot the conversion factor as a function of air temperature at each base, and Table 22 shows the coefficients obtained from a linear regression of conversion factor as a function of air temperature for each base individually. The equivalent single temperature is computed from the mean air temperature multiplied by the conversion factor.

Regression analysis of the data relating conversion factor to temperature grouped by asphalt thickness gave very poor correlation coefficients, as did an analysis of the data grouped by base. It is therefore concluded that the effects of both climate and layer thickness combine to provide a unique solution to the relation between conversion factor and mean air temperature.

Recommended procedure for the determination of Equivalent Pavement Temperature

The bases used in this study were chosen to represent major climatic regions within continental USA. Thus it is probable that sufficient precision can be obtained by selecting the appropriate conversion factor - air temperature relationship from Table 22.

If this is deemed to be insufficiently reliable, then the procedure described in section 2 can be applied provided the necessary data can be made available.

Further Work

It is possible that further study could lead to the definition of a relationship which has wider application, the incorporation of terms to account for layer thickness in the conversion factor - air temperature relation could assist with this.

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TABLE I. TRAFFIC DATA FOR THE FIVE BUSIEST TRAC BASES
(AS SUPPLIED BY VICKSBURG,

TIME INTERVAL	FY8701	PROPORTION OF TOTAL	FY8702	PROPORTION OF TOTAL	FY8703	PROPORTION OF TOTAL	FY8704	PROPORTION OF TOTAL
LAKE AFB								
0000-0600	0	0.00	0	0.00	0	0.00	0	0.00
0600-1200	10998	0.42	10384	0.43	11108	0.43	11411	0.43
1200-1800	12172	0.49	12562	0.51	12846	0.49	13892	0.52
1800-0000	1996	0.08	1774	0.07	2031	0.08	1463	0.05
TOTAL MOVEMENTS	25166		24720		25985		26766	
MELLIS AFB								
0000-0600	62	.00	75	.00	204	.02	88	.01
0600-1200	6651	0.42	5965	0.39	4183	0.37	6581	0.41
1200-1800	7449	0.47	7601	0.49	6019	0.53	7169	0.47
1800-0000	1758	0.11	1847	0.12	954	0.08	1754	0.11
TOTAL MOVEMENTS	15920		15488		11360		15892	
GEORGE AFB								
0000-0600	26	.00	5	.00	23	.00	86	.01
0600-1200	7241	0.31	6298	0.45	6432	0.47	6426	0.48
1200-1800	7957	0.34	6513	0.47	6554	0.45	6130	0.45
1800-0000	8132	0.35	1140	0.08	1045	0.08	854	0.06
TOTAL MOVEMENTS	23356		13956		13654		13496	
HOLLOWAY AFB								
0000-0600	6	.00	3	.00	10	.00	4	.00
0600-1200	10584	0.49	11185	0.48	12432	0.49	12416	0.47
1200-1800	10494	0.49	11275	0.48	12592	0.48	13069	0.50
1800-0000	483	0.02	806	0.03	733	0.03	829	0.03
TOTAL MOVEMENTS	21567		23269		25467		26318	
TYNDALL AFB								
0000-0600	5	.00	4	.00	10	.00	10	.00
0600-1200	5307	0.43	6455	0.42	6189	0.41	5760	0.40
1200-1800	6361	0.51	7595	0.50	7480	0.49	6895	0.47
1800-0000	795	0.06	1225	0.08	1513	0.10	1861	0.13
TOTAL MOVEMENTS	12378		15279		15132		14526	
MEAN OF ALL BASES	19677.4		18542.4		18331.6		19339.6	

TABLE 2. SUMMARY OF AIRCRAFT MOVEMENTS

TIME INTERVAL	PERCENTAGE OF TOTAL	STANDARD DEVIATION
0000-0600	0	0.00
0600-1200	43	0.04
1200-1800	48	0.04
1800-0000	9	0.07

TABLE 3. REPRESENTATIVE NUMBER OF MOVEMENTS

TOTAL	PER. DAY	PER. HOUR
0	0	0
8156	22	4
9118	25	4
1670	5	1

TABLE 4. HOMESTEAD 3 INCH THICK ASPHALT.

HOUR	MODULUS	STRAIN	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
			n/n	PASSES (n)	n/n	MODULUS	STRAIN	PASSES (n)	n/n	PASSES (n)	n/n	MODULUS	STRAIN	PASSES (n)	MODULUS	STRAIN	PASSES (n)	n/n		
0000-0100	716940	0.00194	26.49	0	716527	0.00194	0	26.53	0	713631	0.00194	0	26.82	0	714456	0.00194	0	26.73	0	
0100-0200	717268	0.00194	26.41	0	716940	0.00194	0	26.49	0	715639	0.00194	0	26.61	0	716940	0.00194	0	26.49	0	
0200-0300	717910	0.00193	26.97	0	718596	0.00193	0	27.01	0	716940	0.00193	0	27.06	0	718182	0.00193	0	26.93	0	
0300-0400	719839	0.00193	0	719425	0.00193	0	26.95	0	719425	0.00193	0	26.77	0	719425	0.00193	0	26.93	0		
0400-0500	721082	0.00193	26.77	0	720253	0.00193	0	26.75	0	719425	0.00193	0	26.77	0	720253	0.00193	0	26.85	0	
0500-0600	721910	0.00193	26.69	0	721082	0.00193	0	26.77	0	719425	0.00193	0	26.64	0	722325	0.00193	0	26.85	0	
0600-0700	722239	0.00193	27.22	0	721514	0.00193	0	26.56	0	719839	0.00193	0	26.56	0	721514	0.00193	0	26.89	0	
0700-0800	723568	0.00192	4	27.22	0	721514	0.00193	4	26.56	0	719839	0.00193	4	26.56	0	721514	0.00193	4	26.82	0
0800-0900	723154	0.00193	4	26.56	0	717354	0.00194	4	26.63	0	71512	0.00195	4	26.63	0	71512	0.00195	4	27.00	0
0900-1000	715699	0.00194	26.61	0	71503	0.00195	4	26.61	0	704996	0.00195	4	26.61	0	704996	0.00195	4	27.24	0	
1000-1100	714956	0.00195	27.00	0	71481	0.00196	4	26.99	0	695892	0.00196	4	26.99	0	695892	0.00196	4	27.24	0	
1100-1200	698120	0.00195	28.17	0	697227	0.00195	4	28.17	0	693103	0.00195	4	28.17	0	693103	0.00195	4	28.89	0	
1200-1300	693836	0.00195	4	29.17	0	692754	0.00195	4	29.41	0	680706	0.00194	4	29.41	0	680706	0.00194	4	30.41	0
1300-1400	689479	0.00194	4	30.56	0	687251	0.00194	4	30.91	0	674998	0.00193	4	31.77	0	674998	0.00193	4	31.92	0
1400-1500	679479	0.00194	30.81	0	676616	0.00194	4	30.76	0	672758	0.00194	4	30.76	0	672758	0.00194	4	31.01	0	
1500-1600	679479	0.00194	30.56	0	671369	0.00194	4	29.55	0	679479	0.00194	4	29.55	0	679479	0.00194	4	30.56	0	
1600-1700	685213	0.00195	29.13	0	681525	0.00195	4	29.13	0	685213	0.00195	4	29.13	0	685213	0.00195	4	29.13	0	
1700-1800	684247	0.00195	27.42	0	687674	0.00195	4	27.42	0	685213	0.00195	4	27.42	0	685213	0.00195	4	27.55	0	
1800-1900	704956	0.00195	27.00	0	705892	0.00195	4	27.00	0	702894	0.00195	4	27.00	0	702894	0.00195	4	27.21	0	
1900-2000	710737	0.00195	26.42	0	703708	0.00195	4	26.86	0	702894	0.00195	4	26.38	0	702894	0.00195	4	26.42	0	
2000-2100	713217	0.00194	27.3217	0	711150	0.00195	4	27.3217	0	70727	0.00195	4	27.3217	0	70727	0.00195	4	27.42	0	
2100-2200	714871	0.00194	26.69	0	709375	0.00194	4	26.69	0	703525	0.00194	4	26.69	0	703525	0.00194	4	26.98	0	
2200-2300	715699	0.00194	26.61	0	715699	0.00194	4	26.53	0	713217	0.00194	4	26.61	0	713217	0.00194	4	26.86	0	
2300-0000	716527	0.00194	4	26.53	0	716527	0.00194	4	26.53	0	716527	0.00194	4	26.53	0	716527	0.00194	4	26.86	0
HOUR	MODULUS	STRAIN	PASSES (n)	n/n	MODULUS	STRAIN	PASSES (n)	n/n	MODULUS	STRAIN	PASSES (n)	n/n	MODULUS	STRAIN	PASSES (n)	n/n	MODULUS	STRAIN	PASSES (n)	
0000-0100	711977	0.00194	26.98	0	709497	0.00195	0	26.54362	0	709497	0.00195	0	26.54362	0	709497	0.00195	0	26.54362	0	
0100-0200	712390	0.00194	26.94	0	709911	0.00195	0	26.50339	0	709911	0.00195	0	26.50339	0	709911	0.00195	0	26.40339	0	
0200-0300	713217	0.00194	26.86	0	711563	0.00194	0	26.02460	0	710267	0.00195	0	26.02460	0	710267	0.00195	0	26.02460	0	
0300-0400	714558	0.00194	26.73	0	712390	0.00194	0	26.94107	0	711563	0.00194	0	26.94107	0	711563	0.00194	0	26.81640	0	
0400-0500	714871	0.00194	26.69	0	713217	0.00194	0	26.85190	0	712390	0.00194	0	26.85190	0	712390	0.00194	0	26.73776	0	
0500-0600	716113	0.00194	26.57	0	714558	0.00194	0	26.73176	0	714558	0.00194	0	26.69261	0	714558	0.00194	0	26.73776	0	
0600-0700	716940	0.00194	26.49	0	714871	0.00194	0	26.49	0	714871	0.00194	0	26.49	0	714871	0.00194	0	26.49	0	
0700-0800	716940	0.00194	26.49	0	716616	0.00194	0	26.49	0	716616	0.00194	0	26.49	0	716616	0.00194	0	26.49	0	
0800-0900	717150	0.00195	26.38	0	716454	0.00195	0	26.38	0	716454	0.00195	0	26.38	0	716454	0.00195	0	26.38	0	
0900-1000	712482	0.00195	27.26	0	697539	0.00195	0	27.26	0	697539	0.00195	0	27.26	0	697539	0.00195	0	27.26	0	
1000-1100	693425	0.00195	4	28.21	0	689727	0.00195	4	28.21	0	689727	0.00195	4	28.61994	0.00195	4	28.61994	0.00195	4	
1100-1200	685213	0.00195	4	29.13	0	683983	0.00195	4	29.13	0	683983	0.00195	4	29.26995	0.00195	4	29.45266	0.00195	4	
1200-1300	686640	0.00194	26.66	0	693065	0.00194	4	26.66	0	693065	0.00194	4	26.66	0	693065	0.00194	4	26.75746	0.00194	
1300-1400	684573	0.00193	31.97	0	681281	0.00193	4	31.97	0	681281	0.00193	4	31.97	0	681281	0.00193	4	31.97	0	
1400-1500	682939	0.00193	32.18	0	674981	0.00193	4	31.97	0	674981	0.00193	4	31.97	0	674981	0.00193	4	31.97	0	
1500-1600	684573	0.00193	31.97	0	675798	0.00193	4	31.97	0	675798	0.00193	4	31.97	0	675798	0.00193	4	31.97	0	
1600-1700	682851	0.00194	30.71	0	682851	0.00194	4	30.71	0	682851	0.00194	4	30.71	0	682851	0.00194	4	30.71	0	
1700-1800	684393	0.00193	31.69	0	682344	0.00193	4	31.69	0	682344	0.00193	4	31.69	0	682344	0.00193	4	31.69	0	
1800-1900	682191	0.00193	27.63	0	687674	0.00193	4	27.63	0	687674	0.00193	4	27.63	0	687674	0.00193	4	27.63	0	
1900-2000	701245	0.00195	26.69	0	694247	0.00196	4	26.69	0	694247	0.00196	4	26.69	0	694247	0.00196	4	26.73458	0.00196	
2000-2100	705782	0.00195	26.92	0	701245	0.00196	4	26.92	0	701245	0.00196	4	26.92	0	701245	0.00196	4	26.92	0	
2100-2200	708238	0.00195	26.67	0	704956	0.00195	4	26.67	0	704956	0.00195	4	26.67	0	704956	0.00195	4	26.67	0	
2200-2300	709497	0.00195	26.54	0	707433	0.00195	4	26.54	0	707433	0.00195	4	26.54	0	707433	0.00195	4	26.54	0	
2300-2400	710317	0.00195	31.71	0	708238	0.00195	4	31.71	0	708238	0.00195	4	31.71	0	708238	0.00195	4	31.71	0	

4 hr min

710731

0.00195

710811

0.00195

TABLE 4 CONTINUED

HOUR	MODULUS	STRAIN	PHASES (n)	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
				N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	
0000-0100	708671	0.00195	0	26.53	0	708671	0.00195	0	26.5362	0	708671	0.00195	0	26.5362	0	708671	0.00195	0	26.5362	0	
0100-0200	709397	0.00195	0	26.54	0	709397	0.00195	0	26.5362	0	709397	0.00195	0	26.5362	0	709397	0.00195	0	26.5362	0	
0200-0300	710224	0.00195	0	26.46	0	709311	0.00195	0	26.5023	0	709311	0.00195	0	26.5023	0	709311	0.00195	0	26.5023	0	
0300-0400	711150	0.00195	0	26.38	0	711563	0.00194	0	26.4039	0	711563	0.00194	0	26.4039	0	711563	0.00194	0	26.4039	0	
0400-0500	711927	0.00194	0	26.98	0	712317	0.00194	0	27.02460	0	712317	0.00194	0	27.02460	0	712317	0.00194	0	27.02460	0	
0500-0600	712804	0.00194	0	26.90	0	712804	0.00194	0	26.91102	0	712804	0.00194	0	26.91102	0	712804	0.00194	0	26.91102	0	
0600-0700	714044	0.00194	0	26.78	0.1494	713217	0.00194	0	26.87290	0.148931	713217	0.00194	0	26.87290	0.148931	713217	0.00194	0	26.87290	0.148931	
0700-0800	709397	0.00195	0	26.54	0.1507	708671	0.00195	0	26.61615	0.150228	708671	0.00195	0	26.61615	0.150228	708671	0.00195	0	26.61615	0.150228	
0800-0900	702894	0.00195	0	27.33	0.1464	693836	0.00196	0	27.49113	0.146671	693836	0.00196	0	27.49113	0.146671	693836	0.00196	0	27.49113	0.146671	
0900-1000	695070	0.00196	0	28.85	0.1387	688654	0.00195	0	28.90008	0.138216	688654	0.00195	0	28.90008	0.138216	688654	0.00195	0	28.90008	0.138216	
1000-1100	687274	0.00195	0	30.37	0.1317	680106	0.00194	0	30.41980	0.131519	680106	0.00194	0	30.41980	0.131519	680106	0.00194	0	30.41980	0.131519	
1100-1200	681116	0.00194	0	30.91	0.1294	675198	0.00193	0	31.8164	0.125716	675198	0.00193	0	31.8164	0.125716	675198	0.00193	0	31.8164	0.125716	
1200-1300	676616	0.00194	0	32.08	0.1247	672123	0.00193	0	32.2838	0.12902	672123	0.00192	0	32.2838	0.12902	672123	0.00192	0	32.2838	0.12902	
1300-1400	673756	0.00193	0	32.28	0.1239	671307	0.00192	0	33.2034	0.124335	671307	0.00192	0	33.2034	0.124335	671307	0.00192	0	33.2034	0.124335	
1400-1500	672123	0.00193	0	32.23	0.1241	672123	0.00193	0	32.2838	0.124103	672123	0.00193	0	32.2838	0.124103	672123	0.00193	0	32.2838	0.124103	
1500-1600	672531	0.00193	0	31.1	0.1296	674981	0.00192	0	31.9298	0.125219	674981	0.00192	0	31.9298	0.125219	674981	0.00192	0	31.9298	0.125219	
1600-1700	674981	0.00194	0	29.78	0.1343	679069	0.00194	0	30.6958	0.130678	679069	0.00194	0	30.6958	0.130678	679069	0.00194	0	30.6958	0.130678	
1700-1800	679479	0.00195	0	29.13	0.1343	685213	0.00195	0	29.8134	0.134334	685213	0.00195	0	29.8134	0.134334	685213	0.00195	0	29.8134	0.134334	
1800-1900	685213	0.00195	0	27.63	0.1362	691781	0.00196	0	27.67075	0.136131	691781	0.00196	0	27.67075	0.136131	691781	0.00196	0	27.67075	0.136131	
1900-2000	692191	0.00195	0	26.86	0.1372	699597	0.00196	0	26.86064	0.137229	699597	0.00195	0	26.86064	0.137229	699597	0.00195	0	26.86064	0.137229	
2000-2100	699597	0.00196	0	27.13	0.1369	704131	0.00195	0	27.08613	0.136913	704131	0.00195	0	27.08613	0.136913	704131	0.00195	0	27.08613	0.136913	
2100-2200	703279	0.00195	0	26.98	0.1372	706194	0.00195	0	26.9393	0.137225	706194	0.00195	0	26.9393	0.137225	706194	0.00195	0	26.9393	0.137225	
2200-2300	706194	0.00195	0	26.71	0.1374	707846	0.00195	0	26.70894	0.137440	707846	0.00195	0	26.70894	0.137440	707846	0.00195	0	26.70894	0.137440	
2300-0000	707846	0.00195	0	26.54	0.1374	708671	0.00195	0	26.48671	0.137440	708671	0.00195	0	26.48671	0.137440	708671	0.00195	0	26.48671	0.137440	
HOUR	MODULUS	STRAIN	PHASES (n)	OCTOBER			NOVEMBER			DECEMBER			OCTOBER			NOVEMBER			DECEMBER		
				N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	
0000-0100	709397	0.00195	0	26.54	0	713631	0.00193	0	27.51836	0	715699	0.00194	0	26.61040	0	715699	0.00194	0	26.61040	0	
0100-0200	710224	0.00195	0	26.46	0	710444	0.00193	0	27.47196	0	716327	0.00194	0	26.52853	0	716327	0.00194	0	26.52853	0	
0200-0300	710237	0.00195	0	26.42	0	715285	0.00193	0	27.34911	0	716840	0.00194	0	26.48782	0	716840	0.00194	0	26.48782	0	
0300-0400	711563	0.00194	0	27.02	0	715999	0.00193	0	27.36697	0	718596	0.00193	0	27.01457	0	718596	0.00193	0	27.01457	0	
0400-0500	712607	0.00194	0	26.899	0	716227	0.00193	0	27.22925	0	719253	0.00193	0	26.89126	0	719253	0.00193	0	26.89126	0	
0500-0600	714044	0.00194	0	26.72	0	716340	0.00193	0	27.18118	0	720553	0.00193	0	26.80817	0	720553	0.00193	0	26.80817	0	
0600-0700	714458	0.00194	0	26.651	0.1496	718596	0.00192	0	27.7544	0.142271	718596	0.00192	0	27.7544	0.142271	718596	0.00192	0	27.7544	0.142271	
0700-0800	715285	0.00194	0	26.502	0.1509	719010	0.00192	0	27.60325	0.147151	719010	0.00192	0	27.60325	0.147151	719010	0.00192	0	27.60325	0.147151	
0800-0900	709397	0.00195	0	26.462	0	715285	0.00194	0	27.47196	0.14493	715285	0.00194	0	26.61449	0	715285	0.00194	0	26.61449	0	
0900-1000	701658	0.00195	0	26.34	0.1462	719767	0.00194	0	26.98274	0.148442	719767	0.00194	0	26.98274	0.148442	719767	0.00194	0	26.98274	0.148442	
1000-1100	691370	0.00195	0	26.439	0.1406	709833	0.00194	0	28.14136	0.142139	709833	0.00194	0	28.14136	0.142139	709833	0.00194	0	28.14136	0.142139	
1100-1200	692754	0.00194	0	30.171	0.1325	690548	0.00194	0	29.27226	0.136448	690548	0.00194	0	29.27226	0.136448	690548	0.00194	0	29.27226	0.136448	
1200-1300	696166	0.00193	0	31.715	0.1261	682344	0.00193	0	31.01666	0.129887	682344	0.00193	0	31.01666	0.129887	682344	0.00193	0	31.01666	0.129887	
1300-1400	672223	0.00192	0	33.132	0.1207	676616	0.00192	0	32.5980	0.128988	676616	0.00192	0	32.86625	0.12705	676616	0.00192	0	32.86625	0.12705	
1400-1500	670899	0.00192	0	33.294	0.1237	674164	0.00191	0	31.7638	0.125919	674164	0.00191	0	31.7638	0.125919	674164	0.00191	0	31.7638	0.125919	
1500-1600	671715	0.00193	0	32.335	0.1209	675198	0.00194	0	30.006	0.129051	681935	0.00194	0	30.006	0.129051	681935	0.00194	0	30.006	0.129051	
1600-1700	675198	0.00194	0	32.439	0.1240	691935	0.00195	0	31.499	0.13555	690548	0.00195	0	31.499	0.13555	690548	0.00195	0	31.499	0.13555	
1700-1800	681935	0.00195	0	32.799	0.1258	699227	0.00196	0	31.897	0.13555	70245	0.00195	0	31.897	0.13555	70245	0.00195	0	31.897	0.13555	
1800-1900	689227	0.00196	0	32.860	0.1274	704956	0.00195	0	31.201	0.13774	704956	0.00195	0	31.201	0.13774	704956	0.00195	0	31.201	0.13774	
1900-2000	699597	0.00196	0	32.001	0.1370	707846	0.00195	0	31.792	0.13774	711150	0.00194	0	31.792	0.13774	711150	0.00194	0	31.792	0.13774	
2000-2100	704956	0.00195	0	32.001	0.1370	707846	0.00195	0	31.792	0.13774	711150	0.00194	0	31.792	0.13774	711150	0.00194	0	31.792	0.13774	
2100-2200	707846	0.00195	0	32.001	0.1374</																

TABLE 5. HOMESTEAD 5 INCH MILK ASPHALT

JANUARY												FEBRUARY												MARCH											
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N										
0000-0100	212354	0.00108	0	194	6158	0	716527	0.00108	0	196	1386	0	714558	0.00109	0	477	4591	0	475	2559	0	494	6158	0.00109	0	496	386	0							
0100-0200	161882	0.00108	0	193	0925	0	717254	0.00108	0	194	6158	0	71599	0.00109	0	475	2559	0	476	1227	0.00108	0	492	3403	0	494	6158	0.00109	0						
0200-0300	19010	0.00108	0	191	5857	0	718936	0.00108	0	192	6303	0	717554	0.00108	0	476	1227	0.00108	0	492	3403	0	493	6158	0.00109	0									
0300-0400	719839	0.00108	0	190	1784	0	719425	0.00108	0	190	6303	0	718925	0.00108	0	476	1227	0.00108	0	492	3403	0	493	6158	0.00109	0									
0400-0500	720687	0.00108	0	188	5792	0	72053	0.00108	0	189	3280	0	71925	0.00108	0	476	1227	0.00108	0	492	3403	0	493	6158	0.00109	0									
0500-0600	0500	0.00108	0	187	0846	0	72082	0.00108	0	187	8302	0	719553	0.00108	0	476	1227	0.00108	0	492	3403	0	493	6158	0.00109	0									
0600-0700	0500	0.00108	0	185	5962	0	008237	0	186	3405	0	008224	0	186	3280	0	008224	0	187	8302	0.00108	0	187	3408	0.00108	0	188	5792	0.00109	0					
0700-0800	0723154	0.00108	0	184	1141	0	008262	0	184	2225	0	008262	0	185	2327	0	008262	0	186	3405	0.00108	0	187	3408	0.00108	0	188	5792	0.00109	0					
0800-0900	723154	0.00108	0	184	5792	0	008187	0	185	2225	0	008187	0	186	3405	0.00108	0	187	3408	0.00108	0	188	5792	0.00109	0	189	3408	0.00109	0						
0900-1000	720687	0.00108	0	184	5240	0	008429	0	185	2225	0	008429	0	186	3405	0.00108	0	187	3408	0.00108	0	188	5792	0.00109	0	189	3408	0.00109	0						
1000-1100	216113	0.00109	0	184	4081	0	008223	0	185	2225	0	008223	0	186	3405	0.00108	0	187	3408	0.00108	0	188	5792	0.00109	0	189	3408	0.00109	0						
1100-1200	709497	0.00109	0	186	4081	0	008223	0	187	6160	0	008223	0	188	9092	0.00107	0	189	3408	0.00108	0	190	1227	0.00107	0	191	5695	0.00107	0						
1200-1300	702482	0.00109	0	186	7647	0	008223	0	187	6160	0	008223	0	188	9092	0.00107	0	189	3408	0.00108	0	190	1227	0.00107	0	191	5695	0.00107	0						
1300-1400	697127	0.00109	0	186	7153	0	008223	0	187	6160	0	008223	0	188	9092	0.00107	0	189	3408	0.00108	0	190	1227	0.00107	0	191	5695	0.00107	0						
1400-1500	693125	0.00106	0	184	3613	0	006728	0	184	2191	0	006728	0	185	2898	0.00106	0	186	3405	0.00105	0	187	3408	0.00105	0	188	5792	0.00106	0						
1500-1600	692191	0.00106	0	187	2898	0	006696	0	186	5458	0	006696	0	187	2898	0.00106	0	188	3405	0.00105	0	189	3408	0.00105	0	190	1227	0.00106	0						
1600-1700	693013	0.00107	0	186	9092	0	007041	0	186	9059	0	007041	0	187	2122	0.00106	0	188	3405	0.00106	0	189	3408	0.00106	0	190	1227	0.00106	0						
1700-1800	696175	0.00108	0	186	6320	0	007481	0	187	6320	0	007481	0	188	9059	0.00107	0	189	3408	0.00107	0	190	1227	0.00107	0	191	5695	0.00107	0						
1800-1900	707120	0.00109	0	186	2421	0	001999	0	187	7127	0	001999	0	188	9059	0.00108	0	189	3408	0.00108	0	190	1227	0.00108	0	191	5695	0.00108	0						
1900-2000	707120	0.00109	0	187	9092	0	002036	0	187	6160	0	002036	0	188	9092	0.00109	0	189	3408	0.00109	0	190	1227	0.00109	0	191	5695	0.00109	0						
2000-2100	713217	0.00109	0	187	6160	0	002065	0	187	3405	0	002065	0	188	9092	0.00109	0	189	3408	0.00109	0	190	1227	0.00109	0	191	5695	0.00109	0						
2100-2200	713217	0.00109	0	187	6763	0	002084	0	187	3405	0	002084	0	188	9092	0.00109	0	189	3408	0.00109	0	190	1227	0.00109	0	191	5695	0.00109	0						
2200-2300	714871	0.00109	0	187	7243	0	002097	0	187	3405	0	002097	0	188	9092	0.00109	0	189	3408	0.00109	0	190	1227	0.00109	0	191	5695	0.00109	0						
2300-2400	716327	0.00108	0	186	1386	0	002015	0	187	3405	0	002015	0	188	9092	0.00108	0	189	3408	0.00108	0	190	1227	0.00108	0	191	5695	0.00108	0						
2400-0000	711563	0.00108	0	186	1386	0	002015	0	187	3405	0	002015	0	188	9092	0.00108	0	189	3408	0.00108	0	190	1227	0.00108	0	191	5695	0.00108	0						

APRIL												MAY												JUNE											
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N										
0000-0100	712804	0.00109	0	180	4174	0	710237	0.00109	0	181	1563	0	00109	0	481-1498	0	70911	0.00109	0	485-6525	0	00109	0	483-4009	0.00109	0	481-9059	0.00109	0	481-9059	0.00109	0			
0100-0200	713631	0.00109	0	180	9351	0	712804	0.00109	0	180	2129	0	00109	0	480-4174	0	711927	0.00109	0	482-9932	0	00106	0	481-9059	0.00109	0	482-9932	0.00109	0						
0200-0300	714871	0.00109	0	180	9351	0	712804	0.00109	0	180	2129	0	00109	0	478-9351	0	712004	0.00109	0	480-4174	0	00106	0	481-9059	0.00109	0	481-9059	0.00109	0						
0300-0400	715299	0.00109	0	180	9351	0	712804	0.00109	0	180	2129	0	00109	0	477-9351	0	713004	0.00109	0	481-9059	0	00106	0	481-9059	0.00109	0	481-9059	0.00109	0						
0400-0500	716240	0.00108	0	180	9351	0	712804	0.00108	0	180	2129	0	00108	0	476-9351	0	713004	0.00108	0	481-9059	0	00106	0	481-9059	0.00108	0	481-9059	0.00108	0						
0500-0600	716240	0.00108	0	180	9351	0	712804	0.00108	0	180	2129	0	00108	0	475-9351	0	713004	0.00108	0	481-9059	0	00106	0	481-9059	0.00108	0	481-9059	0.00108	0						
0600-0700	716113	0.00108	0	180	9351	0	712804	0.00108	0	180	2129	0	00108	0	474-9351	0	713004	0.00108	0	481-9059	0	00106	0	481-9059	0.00108	0	481-9059	0.00108	0						
0700-0800	715285	0.00108	0	180	9351	0	712804	0.00108	0	180	2129	0	00108	0	473-9351	0	713004	0.00108	0	481-9059	0	00106	0	481-9059	0.00108	0	481-9059	0.00108	0						
0800-0900	716327	0.00108	0	180	9351	0	712804	0.00108	0	180	2129	0	00108	0	472-9351	0	713004	0.00108	0	481-9059	0	00106	0	481-9059	0.00108	0	481-9059	0.00108	0						
0900-1000	716327	0.00108	0	180	9351	0	712804	0.00108	0	180	2129	0	00108	0	471-9351	0	713004	0.00108	0	481-9059	0	00106	0	481											

TABLE 5 CONTINUED

HOUR	MODULUS	STRAIN	PHASES (deg)	JULY				SEPTEMBER				OCTOBER			
				N	n/N	MODULUS	STRAIN	N	PHASES (deg)	n/N	MODULUS	STRAIN	N	PHASES (deg)	n/N
0000-0100	709084	0.00109	0	487.1635	0	709911	0.00109	0	485.6525	0	711150	0.00109	0	483.4009	0
0100-0200	70324	0.00109	0	484.9104	0	711150	0.00109	0	483.4009	0	711977	0.00109	0	481.9059	0
0200-0300	711563	0.00109	0	482.6535	0	711563	0.00109	0	482.6535	0	712804	0.00109	0	480.4174	0
0300-0400	712390	0.00109	0	481.6118	0	712390	0.00109	0	481.6118	0	713631	0.00109	0	478.9151	0
0400-0500	713217	0.00109	0	479.6653	0	713217	0.00109	0	479.6653	0	714498	0.00109	0	477.4991	0
0500-0600	714044	0.00109	0	478.1972	0	714044	0.00109	0	478.1972	0	715285	0.00109	0	475.2559	0.00841
0600-0700	714821	0.00109	0	476.1243	0.008390	714458	0.00109	0	477.4591	0.008377	715699	0.00109	0	476.1386	0.00806
0700-0800	714044	0.00109	0	478.1972	0.008364	714821	0.00109	0	476.7243	0.008349	716522	0.00109	0	476.1386	0.00806
0800-0900	711150	0.00109	0	492.4009	0.009274	713217	0.00109	0	479.6653	0.009239	715285	0.00109	0	475.9192	0.00840
0900-1000	706667	0.00109	0	514.9186	0.007768	709497	0.00109	0	466.4081	0.008223	711563	0.00109	0	468.6355	0.00828
1000-1100	702070	0.00109	0	523.8344	0.007616	704544	0.00108	0	518.9466	0.007707	705782	0.00108	0	516.5242	0.00874
1100-1200	697127	0.00107	0	559.2055	0.007153	698774	0.00107	0	555.6199	0.007198	700069	0.00107	0	555.009	0.00723
1200-1300	692662	0.00106	0	596.3457	0.006307	693816	0.00106	0	593.5233	0.006239	694638	0.00106	0	591.6335	0.00676
1300-1400	689316	0.00105	0	633.2645	0.006316	689316	0.00105	0	634.3011	0.006211	690137	0.00105	0	631.2988	0.00633
1400-1500	686443	0.00104	0	671.2365	0.005554	686443	0.00104	0	671.3765	0.005554	687264	0.00104	0	669.6001	0.00559
1500-1600	685213	0.00104	0	708.3620	0.005346	685213	0.00103	0	708.3620	0.005346	686033	0.00104	0	672.8069	0.00594
1600-1700	685213	0.00104	0	674.9548	0.005326	685213	0.00104	0	673.8797	0.005335	686443	0.00104	0	671.7365	0.00595
1700-1800	686854	0.00105	0	639.3319	0.006256	688085	0.00105	0	636.2083	0.006286	688495	0.00106	0	605.8331	0.00660
1800-1900	689272	0.00106	0	602.9832	0.001658	691281	0.00102	0	570.7265	0.001251	692602	0.00102	0	568.951	0.00175
1900-2000	689495	0.00107	0	562.971	0.001623	689275	0.00108	0	534.6330	0.001810	697930	0.00108	0	532.1156	0.00187
2000-2100	697930	0.00108	0	533.1156	0.001879	701245	0.00109	0	501.8121	0.001992	702194	0.00109	0	499.4016	0.00200
2100-2200	702070	0.00109	0	500.2421	0.001999	704544	0.00109	0	495.5745	0.002017	706194	0.00109	0	492.4147	0.00203
2200-2300	704936	0.00109	0	494.8030	0.002221	707030	0.00109	0	490.9628	0.002036	708258	0.00109	0	488.6291	0.00204
2300-0000	207433	0.00109	0	490.1933	0.002339	708671	0.00109	0	487.9205	0.002049	709911	0.00109	0	485.6325	0.00205
HOUR	MODULUS	STRAIN	PHASES (deg)	NOVEMBER				DECEMBER							
				N	n/N	MODULUS	STRAIN	N	PHASES (deg)	n/N	MODULUS	STRAIN	N	PHASES (deg)	n/N
0000-0100	714458	0.00112	0	416.8488	0	716532	0.00108	0	496.1886	0	496.1886	0	496.1886	0	
0100-0200	715285	0.00112	0	415.5656	0	717394	0.00108	0	494.6158	0	494.6158	0	494.6158	0	
0200-0300	716113	0.00112	0	414.2463	0	718536	0.00108	0	493.8558	0	493.8558	0	493.8558	0	
0300-0400	716940	0.00112	0	413.0140	0	719455	0.00108	0	492.3408	0	492.3408	0	492.3408	0	
0400-0500	717394	0.00112	0	412.3791	0	720253	0.00108	0	490.8303	0	490.8303	0	490.8303	0	
0500-0600	718182	0.00112	0	411.1132	0	720253	0.00108	0	489.2380	0	489.2380	0	489.2380	0	
0600-0700	719010	0.00112	0	409.8328	0.009259	720657	0.00108	0	488.592	0.008187	721496	0.00108	0	487.0446	0.008212
0700-0800	719455	0.00112	0	408.2330	0.009274	722325	0.00108	0	487.5362	0.008217	722325	0.00108	0	487.5362	0.008217
0800-0900	719839	0.00112	0	408.5961	0.009289	722023	0.00108	0	485.3280	0.008174	722023	0.00108	0	485.3280	0.008174
0900-1000	717768	0.00112	0	411.7455	0.009214	715295	0.00109	0	475.993	0.008403	708671	0.00109	0	475.993	0.008403
1000-1100	712864	0.00113	0	401.1982	0.009190	708671	0.00109	0	481.9205	0.008198	702023	0.00108	0	522.8244	0.007636
1100-1200	706697	0.00112	0	429.3063	0.009197	706697	0.00108	0	486.9687	0.007130	696304	0.00107	0	500.8121	0.001912
1200-1300	700939	0.00111	0	460.3631	0.008388	702023	0.00108	0	486.9687	0.007130	696304	0.00107	0	492.4147	0.002030
1300-1400	694638	0.00111	0	491.6243	0.008136	694638	0.00109	0	486.9687	0.007130	696304	0.00107	0	486.9687	0.007130
1400-1500	690939	0.00109	0	521.9679	0.007663	692662	0.00106	0	506.3457	0.006707	692662	0.00106	0	506.3457	0.006707
1500-1600	689316	0.00109	0	525.2900	0.007614	690939	0.00106	0	500.1222	0.006665	690939	0.00106	0	500.1222	0.006665
1600-1700	690536	0.00101	0	499.4609	0.008086	692662	0.00109	0	569.8959	0.001018	531.1648	0.00108	0	531.1648	0.00108
1700-1800	693836	0.00111	0	427.3595	0.008486	695481	0.00108	0	501.8121	0.001912	501.8121	0.00109	0	492.4147	0.002030
1800-1900	699185	0.00113	0	414.3652	0.002412	706194	0.00109	0	486.9687	0.007130	492.4147	0.002030	0	486.9687	0.007130
1900-2000	204121	0.00113	0	414.5032	0.002412	706194	0.00109	0	486.9687	0.007130	492.4147	0.002030	0	486.9687	0.007130
2000-2100	707846	0.00113	0	408.7509	0.002446	709911	0.00109	0	481.6225	0.002059	481.6225	0.00109	0	481.6225	0.002059
2100-2200	710324	0.00113	0	404.9420	0.002446	712390	0.00109	0	481.6168	0.002058	481.6168	0.00109	0	481.6168	0.002058
2200-2300	712390	0.00113	0	401.8198	0.002488	714044	0.00109	0	479.1972	0.002059	479.1972	0.00109	0	479.1972	0.002059
2300-0000	713631	0.00112	0	418.1374	0.002339	715285	0.00109	0	475.2359	0.002104	475.2359	0.00109	0	475.2359	0.002104

HONESTEO ID ITH STRONG SUPPORT

APRIL	MATERIAL	PHASES	MODULUS	STRAIN	N	n/N	MODULUS	STRAIN	N	n/N	MODULUS	STRAIN	N	n/N	
JHIN/HY															
JHIN/HY	0.0100	668003	0.00114	0	651395	0.00145	0	1.6e-15	0	645736	0.00146	0	14.9959	0	14.9959
JHIN/HY	0.0200	683e23	0.00142	0	677988	0.00143	0	1.4e-14	0	672123	0.00143	0	14.5224	0	14.5224
JHIN/HY	0.0300	688006	0.00141	0	676883	0.00142	0	1.0e-14	0	675594	0.00143	0	14.6014	0	14.6014
JHIN/HY	0.0400	691986	0.00141	0	683164	0.00142	0	1.3e-14	0	680143	0.00143	0	14.6460	0	14.6460
JHIN/HY	0.0500	693e58	0.00141	0	688443	0.00142	0	1.4e-14	0	682344	0.00142	0	14.9221	0	14.9221
JHIN/HY	0.0600	697138	0.0014	0	689227	0.00141	0	1.4e-14	0	688240	0.00142	0	14.1934	0	14.1934
JHIN/HY	0.0700	701215	0.00139	0	688008	0.00141	0	1.3e-14	0	688240	0.00141	0	14.5955	0.0224	14.5955
JHIN/HY	0.0800	702029	0.00139	0	695687	0.0014	0	1.4e-14	0	688240	0.00141	0	14.1053	0.0227	14.1053
JHIN/HY	0.0900	70233	0.00138	0	698362	0.0014	0	1.4e-14	0	687278	0.00141	0	14.7438	0.0220	14.7438
JHIN/HY	0.1000	708465	0.00138	0	705698	0.0014	0	1.4e-14	0	695072	0.00141	0	14.8533	0.0281	14.8533
JHIN/HY	0.1100	711145	0.00138	0	705646	0.0014	0	1.4e-14	0	698275	0.00141	0	14.8153	0.0281	14.8153
JHIN/HY	0.1200	7139113	0.00138	0	7028589	0.0014	0	1.4e-14	0	692119	0.00142	0	13.8970	0.0280	13.8970
JHIN/HY	0.1300	7166308	0.00138	0	704596	0.00142	0	1.4e-14	0	688116	0.00142	0	13.9877	0.0285	13.9877
JHIN/HY	0.1400	7170100	0.00138	0	698038	0.00142	0	1.4e-14	0	702852	0.00142	0	14.2915	0.0279	14.2915
JHIN/HY	0.1500	717512	0.00138	0	692808	0.00142	0	1.4e-14	0	688293	0.00142	0	14.6744	0.0272	14.6744
JHIN/HY	0.1600	718000	0.00138	0	695206	0.00142	0	1.4e-14	0	672229	0.00142	0	14.6744	0.0272	14.6744
JHIN/HY	0.1700	718750	0.00138	0	697138	0.00142	0	1.4e-14	0	670089	0.00141	0	15.0555	0.0255	15.0555
JHIN/HY	0.1800	720465	0.00138	0	701145	0.0014	0	1.4e-14	0	675571	0.00141	0	16.5005	0.0249	16.5005
JHIN/HY	0.1900	720860	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2000	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2100	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2200	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2300	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2400	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2500	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2600	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JHIN/HY	0.2700	720852	0.00138	0	701145	0.0014	0	1.4e-14	0	670455	0.00141	0	17.0455	0.0249	17.0455
JUN															
MAY															
JHIN/HY	0.0100	636873	0.00147	0	630050	0.00147	0	1.4e-14	0	62046	0.00147	0	15.1858	0	15.1858
JHIN/HY	0.0200	668009	0.00144	0	661534	0.00144	0	1.4e-14	0	658691	0.00144	0	14.3887	0.0287	14.3887
JHIN/HY	0.0300	669e25	0.00144	0	661964	0.00144	0	1.4e-14	0	665550	0.00144	0	14.0529	0.0280	14.0529
JHIN/HY	0.0400	670313	0.00143	0	668660	0.00144	0	1.4e-14	0	665416	0.00144	0	14.2810	0.0281	14.2810
JHIN/HY	0.0500	670500	0.00143	0	673207	0.00143	0	1.4e-14	0	669879	0.00144	0	14.8717	0	14.8717
JHIN/HY	0.0600	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	673347	0.00143	0	14.3347	0	14.3347
JHIN/HY	0.0700	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	675411	0.00143	0	14.1428	0.0281	14.1428
JHIN/HY	0.0800	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.0900	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1000	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1100	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1200	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1300	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1400	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1500	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1600	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1700	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1800	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.1900	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2000	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2100	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2200	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2300	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2400	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2500	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2600	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2700	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2800	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.2900	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3000	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3100	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3200	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3300	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3400	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3500	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3600	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3700	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3800	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.3900	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.4000	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.4100	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.4200	670700	0.00142	0	672521	0.00143	0	1.4e-14	0	674749	0.00143	0	14.3888	0.0284	14.3888
JHIN/HY	0.4300	670700	0.00142	0	672521	0.00143	0	1.4e-14	0						

TABLE 6 - CONTINUED

HOUR	MODULUS	STRAIN	PASSES (n)	AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
				n/N	n/H	n/H	PASSES (n)	n/N	n/H	n/H	PASSES (n)	n/N	n/H	n/H	PASSES (n)	n/N	n/H	n/H	PASSES (n)	n/N	n/H	PASSES (n)	
0000-0100	6.252-47	0.00147	0	52.7046	0	63.1653	0.00147	0	48.6122	0	63.9884	0.00146	0	49.1772	0	6.252-47	0.00146	0	142.5152	0	6.252-47	0.00146	
0100-0200	6.58385	0.00144	0	47.5811	0	66.2550	0.00144	0	45.0629	0	66.7134	0.00144	0	42.516	0	6.58385	0.00144	0	140.5016	0	6.58385	0.00144	
0200-0300	6.62347	0.00144	0	45.1814	0	66.0116	0.00144	0	42.8310	0	67.0899	0.00143	0	43.2933	0	6.62347	0.00143	0	143.2933	0	6.62347	0.00143	
0300-0400	6.65609	0.00144	0	43.0637	0	66.9675	0.00144	0	40.9861	0	67.3368	0.00143	0	41.5720	0	6.65609	0.00143	0	141.5720	0	6.65609	0.00143	
0400-0500	6.69675	0.00144	0	40.9861	0	67.2531	0.00143	0	44.3389	0	67.7333	0.00143	0	43.9892	0	6.69675	0.00143	0	139.9892	0	6.69675	0.00143	
0500-0600	6.73939	0.00143	0	44.1057	0	67.5394	0.00143	0	42.6014	0	68.937	0.00143	0	43.5478	0	6.73939	0.00143	0	143.5478	0	6.73939	0.00143	
0600-0700	6.76207	0.00143	0	42.2571	0	67.02118	0.00143	0	41.1175	0	68.2559	0.00142	0	43.0277	0	6.76207	0.00142	0	143.0277	0	6.76207	0.00142	
0700-0800	6.79865	0.00143	0	40.7776	0	68.02413	0.00143	0	43.4872	0	68.5623	0.00142	0	42.02816	0	6.79865	0.00142	0	145.7152	0	6.79865	0.00142	
0800-0900	6.81116	0.00143	0	39.5411	0	68.26655	0.00142	0	43.2755	0	68.8085	0.00141	0	44.0285	0	6.81116	0.00141	0	145.0285	0	6.81116	0.00141	
0900-1000	6.81935	0.00143	0	39.0949	0	68.26757	0.00142	0	42.5735	0	68.932	0.00142	0	43.5443	0	6.81935	0.00142	0	139.5443	0	6.81935	0.00142	
1000-1100	6.81116	0.00143	0	39.5411	0	68.26655	0.00143	0	43.6576	0	69.0142	0.00142	0	44.0330	0	6.81116	0.00142	0	140.0330	0	6.81116	0.00142	
1100-1200	6.78660	0.00143	0	40.8909	0	68.23950	0.00143	0	43.85398	0	68.995	0.00142	0	44.5478	0	6.78660	0.00142	0	140.5478	0	6.78660	0.00142	
1200-1300	6.73668	0.00142	0	48.4104	0	67.9259	0.00143	0	44.5518	0	68.4603	0.00143	0	44.5518	0	6.73668	0.00143	0	145.6881	0	6.73668	0.00143	
1300-1400	6.63064	0.00141	0	57.0181	0	67.25474	0.00142	0	44.8769	0	67.00887	0.00142	0	44.0275	0	6.63064	0.00142	0	145.0275	0	6.63064	0.00142	
1400-1500	6.62257	0.00141	0	56.0114	0	67.02990	0.00141	0	45.9134	0	67.3320	0.00141	0	45.9134	0	6.62257	0.00141	0	154.9954	0	6.62257	0.00141	
1500-1600	6.57459	0.00139	0	57.4135	0	66.02546	0.00141	0	46.3774	0	66.5194	0.00141	0	46.2415	0	6.57459	0.00141	0	165.2415	0	6.57459	0.00141	
1600-1700	6.56586	0.00139	0	58.3927	0	65.9429	0.00139	0	47.0287	0	66.8691	0.0014	0	46.2338	0	6.56586	0.0014	0	169.6249	0	6.56586	0.0014	
1700-1800	6.49533	0.00137	0	59.6364	0	65.02036	0.00138	0	48.8944	0	67.3014	0.00139	0	47.9178	0	6.49533	0.00139	0	179.9178	0	6.49533	0.00139	
1800-1900	6.41703	0.00138	0	59.5420	0	64.9229	0.00139	0	48.9916	0	64.9958	0.0014	0	47.9823	0	6.41703	0.00139	0	176.4823	0	6.41703	0.00139	
1900-2000	6.39488	0.00139	0	59.2322	0	64.2912	0.0014	0	49.9475	0	64.9548	0.00141	0	47.9582	0	6.39488	0.00141	0	171.7331	0	6.39488	0.00141	
2000-2100	6.30985	0.0014	0	58.0456	0	64.3115	0.00142	0	50.2273	0	64.7553	0.00143	0	50.6636	0	6.30985	0.00143	0	159.6569	0	6.30985	0.00143	
2100-2200	6.40494	0.00142	0	57.2558	0	64.05873	0.00143	0	50.9911	0	64.9177	0.00144	0	50.7872	0	6.40494	0.00144	0	152.7872	0	6.40494	0.00144	
2200-2300	6.43119	0.00143	0	62.2036	0	64.8666	0.00144	0	53.4226	0	65.3622	0.00144	0	50.6634	0	6.43119	0.00144	0	150.9456	0	6.43119	0.00144	
2300-0000	6.447756	0.00144	0	54.0609	0	65.02036	0.00144	0	50.9015	0	65.7676	0.00144	0	50.9015	0	6.447756	0.00144	0	147.9456	0	6.447756	0.00144	

142.9456 0.006995

TABLE I. HINOT 3 INCH TENSILE TESTS

HINOT	MODULUS	STRAIN	N	n/N	MODULUS	STRAIN	PHASES (n)	N	n/N	MODULUS	STRAIN	PHASES (n)	N	n/N	APKIL
0100 1001354	0.00166	0	23.70305	0	987354	0.00169	0	22.57498	0	974863	0.00171	0	21.94832	0	21.94832
0100 0.200	1002554	0.00165	0	24.35256	0	987354	0.00168	0	23.17928	0	976076	0.00171	0	21.8571	0
0200-0300	1003749	0.00165	0	24.24537	0	988558	0.00168	0	23.10412	0	972887	0.0017	0	22.45241	0
0300-0400	1004147	0.00165	0	24.02974	0	989762	0.00168	0	23.02929	0	980514	0.0017	0	22.38482	0
0400-0500	1005340	0.00165	0	24.7312	0	990965	0.00168	0	22.95486	0	982125	0.00169	0	22.82226	0
0500-0600	1006136	0.00165	0	24.12219	0	992267	0.00167	0	23.57413	0	983333	0.00169	0	22.72761	0.1758
0600-0700	1007238	0.00165	0	24.04619	0.168346	992568	0.00167	0	23.41299	0.174088	982331	0.00169	0	22.7242	0.1756
0700-0800	1008533	0.00165	0	24.05864	0.165396	993369	0.00167	0	23.07922	0.173691	977954	0.0017	0	21.70394	0.1836
0800-0900	1009493	0.00165	0	24.15858	0.165398	989762	0.00168	0	22.77242	0.173691	970008	0.00172	0	21.6032	0.1851
0900-1000	1009866	0.00165	0	23.84667	0.167682	982331	0.00169	0	21.9404	0.18448	962205	0.00174	0	20.80462	0.1922
1000-1100	1009762	0.00168	0	23.02929	0.173691	975268	0.00121	0	21.65979	0.18448	955297	0.00175	0	20.56933	0.1946
1100-1200	1009917	0.0017	0	22.23166	0.179923	969397	0.00122	0	21.39885	0.187013	950891	0.00176	0	20.31648	0.1962
1200-1300	1003651	0.00171	0	22.0121	0.181643	963112	0.00123	0	20.99318	0.190537	947213	0.00176	0	20.51730	0.1949
1300-1400	1008793	0.00172	0	21.67548	0.185450	959452	0.00174	0	21.08841	0.189677	945168	0.00177	0	20.05943	0.1938
1400-1500	1007517	0.00172	0	21.74915	0.183923	957224	0.00174	0	21.08841	0.189677	945168	0.00176	0	20.63582	0.1951
1500-1600	1009198	0.00172	0	21.96835	0.18745	957924	0.00174	0	20.94579	0.190969	94722	0.00176	0	20.49371	0.1951
1600-1700	974055	0.00171	0	21.99688	0.181843	960366	0.00174	0	21.31693	0.187644	951708	0.00175	0	20.81557	0.1981
1700-1800	981330	0.00169	0	22.81218	0.17488	964330	0.00123	0	21.60308	0.18644	946330	0.00174	0	20.08455	0.1947
1800-1900	990163	0.00168	0	23.39756	0.042339	977287	0.00172	0	22.49241	0.046289	965142	0.00173	0	21.26916	0.0470
1900-2000	994970	0.00167	0	23.95662	0.042339	978120	0.00172	0	22.81218	0.043271	969198	0.00172	0	21.65135	0.0461
2000-2100	992768	0.00166	0	23.85467	0.041742	981320	0.00169	0	22.74765	0.043960	970818	0.00172	0	21.55520	0.0463
2100-2200	993866	0.00166	0	23.85467	0.041920	984942	0.00169	0	22.63872	0.044152	972337	0.00171	0	22.09455	0.0452
2200-2300	999365	0.00166	0	23.85930	0.041965	984942	0.00169	0	22.62410	0.042099	973651	0.00171	0	22.02121	0.0451
2300-0000	1000561	0.00166	0	23.75346	0.042099	985394	0.00169	0	23.00172	0	955279	0.00175	0	20.33279	0
HINOT	MODULUS	STRAIN	N	n/N	MODULUS	STRAIN	PHASES (n)	N	n/N	MODULUS	STRAIN	PHASES (n)	N	n/N	JUNE
0000-0100	965142	0.00173	0	21.25916	0	959045	0.00287	0	1.721496	0	955279	0.00175	0	20.33279	0
0100-0200	966360	0.00173	0	21.19280	0	96286	0.00286	0	1.739726	0	962709	0.00174	0	21.13631	0
0200-0300	968387	0.00172	0	21.68970	0	963112	0.00283	0	1.79015	0	959045	0.00174	0	21.01693	0
0300-0400	970088	0.00172	0	21.60320	0	965142	0.00283	0	1.85719	0	960822	0.00174	0	20.9221	0
0400-0500	972033	0.00171	0	22.11903	0	968793	0.0028	0	1.893985	0	962205	0.00173	0	21.41295	0
0500-0600	973651	0.00171	0	22.03121	0	968793	0.00284	0	1.891978	0.046674	957416	0.00175	0	21.41295	0.1868
0600-0700	974863	0.00172	0	21.94832	0.182446	965548	0.00289	0	1.878178	0.046674	950074	0.00176	0	20.55306	0.1955
0700-0800	972313	0.00172	0	21.38342	0.186189	959589	0.00288	0	1.68995	0.046674	957416	0.00176	0	20.55306	0.1955
0800-0900	965954	0.00173	0	21.22155	0.188387	952932	0.00294	0	1.552315	0.046674	957416	0.00176	0	20.55306	0.1955
0900-1000	958638	0.00174	0	21.04045	0.190107	945577	0.00303	0	1.432107	0.046674	942711	0.00177	0	20.19907	0.1980
1000-1100	952116	0.00176	0	20.23693	0.197658	939432	0.00305	0	1.341934	0.046674	934917	0.00178	0	20.0735	0.1992
1100-1200	945986	0.00177	0	20.01324	0.198867	934095	0.00309	0	1.275539	0.046674	928487	0.00178	0	20.43466	0.1987
1200-1300	941026	0.00177	0	20.28295	0.197112	930395	0.00312	0	1.228268	0.046674	924218	0.00179	0	20.13087	0.1986
1300-1400	932779	0.00178	0	19.91379	0.208865	927514	0.00314	0	1.200492	0.046674	920093	0.00179	0	20.36229	0.1983
1400-1500	936149	0.00178	0	20.00201	0.199929	92554	0.00316	0	1.16891	0.046674	918029	0.00179	0	20.49458	0.1951
1500-1600	935738	0.00178	0	20.30343	0.199696	925866	0.00315	0	1.187170	0.046674	918029	0.00179	0	20.49458	0.1951
1600-1700	937380	0.00177	0	20.5066	0.195058	926690	0.00314	0	20.3339	0.046674	919268	0.00179	0	20.42105	0.19587
1700-1800	940252	0.00177	0	20.34015	0.196655	929161	0.00311	0	1.255580	0.046674	922556	0.00179	0	20.25105	0.1952
1800-1900	944758	0.00176	0	20.63969	0.048403	933273	0.00308	0	1.300438	0.046674	926680	0.00178	0	20.55588	0.0486
1900-2000	950014	0.00175	0	20.94126	0.047752	938611	0.00303	0	1.398046	0.046674	932451	0.00178	0	20.21916	0.0494
2000-2100	956602	0.00174	0	21.16028	0.042558	944349	0.00298	0	1.486302	0.046674	939022	0.00177	0	20.41123	0.0489
2100-2200	959859	0.00173	0	21.36942	0.046458	950891	0.00293	0	1.588035	0.046674	946695	0.00176	0	20.56459	0.0486
2200-2300	962299	0.00173	0	21.49204	0.046458	954971	0.00293	0	1.653923	0.046674	950891	0.00175	0	20.89334	0.0478
2300-0000	963924	0.00173	0	21.33086	0.046458	957416	0.00293	0	1.630248	0.046674	953748	0.00175	0	20.2169	0.0482

TABLE 7 CONTINUED

HOUR	MODULUS	STRAIN	AUGUST			SEPTEMBER			OCTOBER		
			PHSES (n)	N	n/N	MODULUS	SIPHIN (n)	N	n/N	MODULUS	STRAIN
0000-0100	952116	0.00174	0	21.1123	0	955379	0.00175	0	20.63279	0	972842
0100-0200	959045	0.00174	0	21.06193	0	957009	0.00174	0	21.13631	0	974459
0200-0300	960672	0.00174	0	20.92221	0	958638	0.00174	0	21.04072	0	975622
0300-0400	962299	0.00173	0	21.43204	0	960672	0.00174	0	20.92221	0	976883
0400-0500	964330	0.00173	0	21.31693	0	961892	0.00173	0	21.46222	0	978094
0500-0600	965394	0.00173	0	21.22155	0	96324	0.00173	0	21.34086	0	979304
0600-0700	967382	0.00172	4	21.12391	0.184128	966360	0.00173	4	21.19870	0.188698	980514
0700-0800	964330	0.00173	4	21.31693	0.187644	967982	0.00172	4	21.72391	0.184128	982842
0800-0900	958602	0.00175	4	20.36257	0.194528	962205	0.00174	4	20.80467	0.192564	976883
0900-1000	946440	0.00176	4	20.44664	0.195631	954564	0.00175	4	20.65977	0.19325	968759
1000-1100	940252	0.00177	4	20.34015	0.196555	945572	0.00177	4	20.03662	0.199632	960216
1100-1200	933684	0.00178	4	20.14808	0.198530	936360	0.00178	4	19.98362	0.200163	952116
1200-1300	927926	0.00179	4	19.91720	0.200831	929572	0.00178	4	20.39648	0.196208	945168
1300-1400	923806	0.00179	4	20.15480	0.198463	924218	0.00179	4	20.13087	0.198699	940662
1400-1500	921744	0.00179	4	20.27519	0.192285	921744	0.00179	4	20.29519	0.192785	938611
1500-1600	921744	0.00179	4	20.25759	0.192285	921744	0.00179	4	20.27519	0.192785	939012
1600-1700	923393	0.00179	4	20.78894	0.198227	924630	0.00179	4	20.10619	0.198395	942301
1700-1800	922102	0.00178	4	20.53155	0.194822	92161	0.00178	4	20.41017	0.195377	947213
1800-1900	932862	0.00178	4	20.19543	0.049516	936560	0.00177	1	20.53454	0.048651	954564
1900-2000	939432	0.00177	4	20.38750	0.049049	943349	0.00176	1	20.68335	0.048447	962299
2000-2100	946804	0.00176	4	20.54933	0.046833	948440	0.00176	1	20.45664	0.048907	966765
2100-2200	951703	0.00175	4	20.84532	0.049271	951708	0.00175	1	20.81557	0.049371	968759
2200-2300	951156	0.00175	4	20.30335	0.048301	952932	0.00175	1	20.77429	0.048336	970433
2300-0000	956194	0.00175	4	20.58596	0.048576	954156	0.00175	1	20.70335	0.048301	971628
NOVEMBER											
HOUR	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	SIPHIN (n)	N	n/N	MODULUS	STRAIN
0000-0100	985344	0.00169	0	22.62410	0	994170	0.00167	0	23.44777	0	23.44777
0100-0200	985746	0.00169	0	22.59952	0	994970	0.00167	0	23.82915	0	23.82915
0200-0300	986550	0.00168	0	22.22965	0	995720	0.00167	0	23.53450	0	23.53450
0300-0400	987255	0.00168	0	23.15421	0	996365	0.00166	0	23.34923	0	23.34923
0400-0500	988969	0.00168	0	23.07910	0	993368	0.00166	0	23.98623	0	23.98623
0500-0600	989762	0.00168	0	23.02929	0	990566	0.00166	0	23.88015	0	23.88015
0600-0700	990765	0.00168	4	22.95486	0.174254	993365	0.00166	4	23.82930	0.168660	23.82930
0700-0800	992163	0.00167	4	23.57413	0.169677	1000561	0.00166	4	23.53436	0.168396	23.53436
0800-0900	991767	0.00168	4	22.90533	0.126631	1001757	0.00167	4	23.61796	0.169333	23.61796
0900-1000	984492	0.00169	4	22.64812	0.176610	1000561	0.00166	4	23.75346	0.168396	23.75346
1000-1100	975567	0.00171	4	21.89955	0.182649	993369	0.00167	4	23.47299	0.170408	23.47299
1100-1200	968360	0.00173	4	21.19200	0.188698	983333	0.00167	4	22.08639	0.181066	22.08639
1200-1300	958231	0.00174	4	21.06455	0.18892	974459	0.00171	4	21.91258	0.182045	21.91258
1300-1400	952932	0.00175	4	20.77429	0.192545	967982	0.00172	4	21.22155	0.181428	21.22155
1400-1500	951299	0.00175	4	20.86947	0.191663	965954	0.00173	4	21.72391	0.188487	21.72391
1500-1600	953340	0.00175	4	20.75061	0.192765	967982	0.00172	4	21.67936	0.184128	21.67936
1600-1700	951824	0.00174	4	21.08841	0.189677	974055	0.00171	4	21.99688	0.181843	21.99688
1700-1800	945142	0.00173	4	21.26916	0.188065	985931	0.00169	4	22.77242	0.175651	22.77242
1800-1900	932651	0.00173	4	22.02121	0.045410	988157	0.00169	4	23.22911	0.04235	23.22911
1900-2000	928094	0.0017	4	22.40307	0.044636	990564	0.00168	4	22.9364	0.04516	22.9364
2000-2100	980917	0.0017	4	22.2316	0.044980	991366	0.00168	4	22.33013	0.043610	22.33013
2100-2200	987123	0.00169	4	22.84717	0.043769	992267	0.00167	4	23.52413	0.042419	23.52413
2200-2300	982931	0.00169	4	22.77242	0.043912	992969	0.00167	4	23.52342	0.042510	23.52342
2300-0000	981138	0.00169	4	22.69806	0.044056	993375	0.00167	4	23.47299	0.042602	23.47299

OCTOBER

PASSES
(n)

N

n/N

SEPTEMBER

PASSES
(n)

N

n/N

OCTOBER

PASSES
(n)

N

n/N

NOVEMBER

PASSES
(n)

N

n/N

DECEMBER

PASSES
(n)

N

n/N

NOVEMBER

PASSES
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N

n/N

OCTOBER

PASSES
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n/N

NOVEMBER

PASSES
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DECEMBER

PASSES
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OCTOBER

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OCTOBER

PASSES
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n/N

NOVEMBER

PASSES
(n)

N

n/N

DECEMBER

PASSES
(n)

N

n/N

NOVEMBER

PASSES
(n)

N

TABLE 6. MINI 5 INCH THIN R-PHNL

FEBRUARY						MARCH						APRIL						JULY					
HOUR	MODULUS	STRAIN	N	n/N	PASSES	HOUR	MODULUS	STRAIN	N	n/N	PASSES	HOUR	MODULUS	STRAIN	N	n/N	PASSES	HOUR	MODULUS	STRAIN	N	n/N	
0000-1100	389964	0.000933	0	43.9668	0	98.1125	0.000942	0	424.1677	0	973246	0.000958	0	399.4622	0	0	399.4622	0	0	399.4622	0		
0100-0200	987762	0.000939	0	44.9396	0	98.3333	0.000944	0	426.2973	0	974459	0.000956	0	402.3205	0	0	402.3205	0	0	402.3205	0		
0200-0300	990965	0.000947	0	44.9866	0	98.9442	0.000937	0	430.9314	0	975268	0.000954	0	408.6573	0	0	408.6573	0	0	408.6573	0		
0300-0400	991767	0.000926	0	450.2253	0	98.6146	0.000935	0	432.2940	0	976479	0.000952	0	408.5829	0	0	408.5829	0	0	408.5829	0		
0400-0500	992167	0.000925	0	452.1780	0	98.6552	0.000934	0	435.5447	0	977691	0.000949	0	413.7221	0	0	413.7221	0	0	413.7221	0		
0500-0600	992669	0.000924	0	453.6523	0	98.6951	0.000933	0	436.9012	0	978901	0.000947	0	416.7334	0	0	416.7334	0	0	416.7334	0		
0600-0700	994170	0.000922	0	457.1190	0.0008750	98.755	0.000933	4	438.2966	0.000916	980111	0.000945	4	419.7616	0.000952	0	419.3080	0.000952	0	419.3080	0.000952		
0700-0800	994970	0.000921	0	458.6219	0.0008721	98.7558	0.000934	4	439.6363	0.000916	980514	0.000945	4	419.3080	0.000953	0	419.3080	0.000953	0	419.3080	0.000953		
0800-0900	993370	0.000921	0	458.1309	0.0008731	98.7554	0.000934	4	436.4223	0.000916	989801	0.000945	4	410.1049	0.000953	0	410.1049	0.000953	0	410.1049	0.000953		
0900-1000	993469	0.000925	0	450.7214	0.0008874	98.8540	0.000941	4	423.6445	0.000914	975672	0.000958	4	396.8207	0.000968	0	396.8207	0.000968	0	396.8207	0.000968		
1000-1100	989316	0.000933	0	436.4031	0.0009165	98.8514	0.000949	4	410.5531	0.000913	971236	0.000953	4	395.3239	0.000938	0	395.3239	0.000938	0	395.3239	0.000938		
1100-1200	985450	0.000942	0	421.4006	0.0009492	978076	0.000958	4	396.3831	0.000911	962299	0.000974	4	377.7169	0.000967	0	377.7169	0.000967	0	377.7169	0.000967		
1200-1300	979109	0.000951	0	407.1378	0.0009824	971628	0.000965	4	388.8944	0.000981	958638	0.000985	4	361.9310	0.01093	0	361.9310	0.01093	0	361.9310	0.01093		
1300-1400	972668	0.000958	0	397.2589	0.000968	967982	0.000971	4	378.8647	0.010557	958082	0.000985	4	356.1140	0.01102	0	356.1140	0.01102	0	356.1140	0.01102		
1400-1500	972437	0.000962	0	392.0942	0.010201	965142	0.000974	4	375.9886	0.010638	955287	0.000987	4	356.5382	0.01108	0	356.5382	0.01108	0	356.5382	0.01108		
1500-1600	972223	0.000963	0	391.2632	0.010223	963924	0.000975	4	375.3555	0.010637	954526	0.000989	4	356.2781	0.01108	0	356.2781	0.01108	0	356.2781	0.01108		
1600-1700	971628	0.00096	0	397.0753	0.010073	963924	0.000974	4	377.2561	0.010662	954156	0.000987	4	364.8153	0.01096	0	364.8153	0.01096	0	364.8153	0.01096		
1700-1800	970555	0.000955	0	404.8785	0.009879	961142	0.000975	4	381.8130	0.010475	955787	0.000985	4	370.2386	0.000969	0	370.2386	0.000969	0	370.2386	0.000969		
1800-1900	976791	0.000947	0	418.0992	0.002391	967982	0.000965	4	390.7932	0.002558	958638	0.000998	4	378.9662	0.002633	0	378.9662	0.002633	0	378.9662	0.002633		
1900-2000	981320	0.000941	0	427.3592	0.002333	971628	0.000958	4	401.2374	0.002492	962299	0.000974	4	389.9562	0.002549	0	389.9562	0.002549	0	389.9562	0.002549		
2000-2100	984138	0.000938	0	430.9314	0.002320	975268	0.000952	4	405.9363	0.002439	965954	0.000965	4	390.3948	0.002536	0	390.3948	0.002536	0	390.3948	0.002536		
2100-2200	985736	0.000935	0	435.3982	0.002293	977691	0.000948	4	415.8987	0.002404	968387	0.000965	4	394.2774	0.00253	0	394.2774	0.00253	0	394.2774	0.00253		
2200-2300	989552	0.000933	0	439.2476	0.002226	979708	0.000945	4	422.8465	0.002364	970413	0.000962	4	397.0753	0.00253	0	397.0753	0.00253	0	397.0753	0.00253		
2300-0000	988157	0.000932	0	440.1175	0.00222	981320	0.000943	4	422.8465	0.002364	971628	0.00096	4	397.0753	0.00253	0	397.0753	0.00253	0	397.0753	0.00253		
MAY						JUNE						JULY						JULY					
HOUR	MODULUS	STRAIN	N	n/N	PASSES	HOUR	MODULUS	STRAIN	N	n/N	PASSES	HOUR	MODULUS	STRAIN	N	n/N	PASSES	HOUR	MODULUS	STRAIN	N	n/N	
0000-0100	965142	0.001	0	329.5953	0	954952	0.000979	4	374.3155	0	954952	0.000984	4	366.2570	0	0	366.2570	0	0	366.2570	0		
0100-0200	963360	0.001	0	328.4893	0	961485	0.000977	4	374.0551	0	958231	0.000982	4	367.9695	0	0	367.9695	0	0	367.9695	0		
0200-0300	961982	0.000998	0	320.3144	0	961112	0.000974	4	370.1143	0	958859	0.000979	4	371.8849	0	0	371.8849	0	0	371.8849	0		
0300-0400	96198	0.000996	0	320.5298	0	961736	0.000971	4	371.2114	0	961486	0.000974	4	374.0551	0	0	374.0551	0	0	374.0551	0		
0400-0500	971413	0.000993	0	336.4581	0	966360	0.000969	4	384.5053	0	963112	0.000974	4	378.1143	0	0	378.1143	0	0	378.1143	0		
0500-0600	972033	0.000991	0	342.3880	0.011692	967982	0.000966	4	392.2907	0.010449	964330	0.000972	4	379.2559	0.01055	0	379.2559	0.01055	0	379.2559	0.01055		
0600-0700	972246	0.000988	0	342.3880	0.011692	967982	0.000966	4	375.1568	0.010662	963112	0.000978	4	370.4449	0.01079	0	370.4449	0.01079	0	370.4449	0.01079		
0700-0800	972842	0.000991	0	327.6102	0.011847	965954	0.000974	4	374.0551	0	958519	0.000984	4	365.1013	0.01073	0	365.1013	0.01073	0	365.1013	0.01073		
0800-0900	970818	0.000998	0	327.7491	0.012204	93022	0.000998	4	366.4296	0.010496	959859	0.000999	4	356.1026	0.01055	0	356.1026	0.01055	0	356.1026	0.01055		
0900-1000	961717	0.00101	0	311.8844	0.012826	978224	0.000987	4	359.0909	0.011139	955379	0.000999	4	355.1026	0.01123	0	355.1026	0.01123	0	355.1026	0.01123		
1000-1100	962705	0.00101	0	315.7186	0.012663	953340	0.000991	4	356.3304	0.011225	950483	0.000994	4	355.1026	0.01122	0	355.1026	0.01122	0	355.1026	0.01122		
1100-1200	958231	0.00101	0	304.2969	0.013145	939257	0.000994	4	355.0322	0.011225	941486	0.000995	4	361.0706	0.01102	0	361.0706	0.01102	0	361.0706	0.01102		
1200-1300	951156	0.00103	0	293.1995	0.013646	945577	0.000995	4	360.2349	0.011013	947791	0.000993	4	361.5375	0.01085	0	361.5375	0.01085	0	361.5375	0.01085		
1300-1400	950891	0.00103	0	297.8094	0.013429	940252	0.000995	4	362.3307	0.011039	934917	0.000991	4	375.3514	0.01065	0	375.3514	0.01065	0	375.3514	0.01065		
1400-1500	948440	0.00103	0	297.8510	0.013429	940252	0.000995	4	363.4296	0.010946	933273	0.000999	4	379.0426	0.01055	0	379.0426	0.01055	0	379.0426	0.01055		
1500-1600	946804	0.00103	0	299.2246	0.013367	93022	0.000994	4	365.8562	0.010933	932862	0.000989	4	381.3921	0.01049	0	381.3921	0.01049	0	381.3921	0.01049		
1600-1700	946395	0.00103	0	299.5893	0.013357	938611	0.000994	4	365.4296	0.010946	932863	0.000993	4	379.0246	0.01055	0	379.0246	0.01055	0	379.0246	0.01055		
1700-1800	942123	0.00103	0	298.8864	0.013383	939022	0.000994	4	367.7342	0.0002749	935328	0.000992	4	370.0262	0.000268	0	370.0262	0.000268	0	370.0262	0.000268		
1800-1900	942557	0.																					

TABLE 8 CONTINUED

HOUR	MODULUS	STRAIN	AUGUST			SEPTEMBER			OCTOBER		
			PASSES (n)	N	n/N	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)
0000-0100	958638	0.000981	0	369.3702	0	958244	0.000982	0	971628	0.000996	0
0100-0200	961266	0.000979	0	371.4250	0	959045	0.000981	0	972842	0.000958	0
0200-0300	961486	0.000977	0	374.0251	0	960672	0.000978	0	973651	0.000956	0
0300-0400	963112	0.000974	0	378.1143	0	961892	0.000976	0	972577	0	403.209
0400-0500	964236	0.000972	0	380.3050	0	962112	0.000975	0	975075	0	403.981
0500-0600	965954	0.00097	0	382.9561	0	964330	0.000972	0	976883	0.000953	0
0600-0700	967577	0.000967	0	387.1912	0.010330	967954	0.000967	4	977691	0.000951	413.230
0700-0800	967171	0.00097	4	388.6722	0.010480	967575	0.000967	4	978901	0.000949	414.531
0800-0900	964330	0.000977	4	371.0956	0.010278	967676	0.000972	4	977691	0.000952	407.234
0900-1000	959559	0.000985	4	369.7053	0.010983	962112	0.000979	4	974459	0.000956	394.094
1000-1100	954564	0.000991	4	355.1140	0.011263	958241	0.000987	4	969603	0.000969	384.084
1100-1200	949666	0.000994	4	354.6159	0.011279	955254	0.000993	4	963330	0.000979	36.315
1200-1300	944758	0.000996	4	355.9512	0.011237	942113	0.000996	4	95045	0.000986	35.623
1300-1400	940562	0.000995	4	361.9100	0.011052	943010	0.000996	4	954564	0.00099	0.011120
1400-1500	933791	0.000993	4	369.5595	0.010853	939022	0.000994	4	951299	0.000992	356.598
1500-1600	936149	0.000992	4	372.2158	0.010748	939707	0.000993	4	95024	0.000992	355.793
1600-1700	935538	0.000992	4	372.5908	0.010815	938560	0.000993	4	950074	0.000991	355.602
1700-1800	936560	0.000993	4	369.8520	0.010815	938201	0.000993	4	951708	0.000988	36.429
1800-1900	939022	0.000994	1	365.002736	0.0102736	941072	0.000994	1	95297	0.000984	1
1900-2000	942111	0.000994	1	361.6311	0.002765	945577	0.000992	1	963.3481	0.0022759	362.584
2000-2100	941213	0.000991	1	362.5061	0.002758	949257	0.000995	1	962.7536	0.002769	38.546
2100-2200	951999	0.000989	1	362.0097	0.002762	952514	0.000988	1	968360	0.000968	38.495
2200-2300	954156	0.000986	1	364.6249	0.002742	954564	0.000986	1	968387	0.000965	364.2897
2300-0000	956602	0.000983	1	367.7055	0.002719	956602	0.000984	1	365.8408	0.0022733	392.6211
DECEMBER											
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	PASSES (n)	N	n/N	PASSES (n)	N	n/N
0000-0100	988960	0.000931	0	441.5826	0	992769	0.000923	4	456.1372	0.000917	391.6593
0100-0200	989361	0.00093	0	443.4874	0	994570	0.000922	4	456.6223	0.000878	395.0136
0200-0300	990163	0.000928	0	448.7320	0	992167	0.000927	4	447.3212	0.0008759	401.9962
0300-0400	990965	0.000927	0	448.7686	0	992167	0.000927	4	448.4884	0.0009313	415.0820
0400-0500	991366	0.000926	0	450.7108	0	981723	0.000948	4	411.3623	0.0009723	429.5774
0500-0600	992167	0.000925	0	452.1280	0	992167	0.000924	1	453.653	0.0009817	429.5774
0600-0700	992569	0.000924	1	453.653	0.000924	992167	0.000924	1	456.6223	0.000878	429.5774
0700-0800	992769	0.000923	1	456.1372	0.000917	992167	0.000922	1	456.6223	0.000878	429.5774
0800-0900	994570	0.000922	1	456.6223	0.000878	992167	0.000922	1	456.6223	0.000878	429.5774
0900-1000	99570	0.000922	1	456.6223	0.000878	992167	0.000922	1	456.6223	0.000878	429.5774
1000-1100	996163	0.000921	1	456.6223	0.000878	992167	0.000921	1	456.6223	0.000878	429.5774
1100-1200	981354	0.000937	1	424.4884	0.0009313	981723	0.000948	1	425.7324	0.0002359	429.5774
1200-1300	981723	0.000948	1	425.7324	0.000948	981723	0.000948	1	426.593	0.0002327	429.5774
1300-1400	978479	0.000957	4	398.0213	0.01049	978479	0.000957	4	424.6982	0.0002309	429.5774
1400-1500	972842	0.000962	4	391.6593	0.010212	972842	0.000962	4	431.375	0.00126	429.5774
1500-1600	971628	0.000961	4	395.0136	0.010126	971628	0.000961	4	431.375	0.00126	429.5774
1600-1700	972842	0.000957	4	395.0136	0.010126	972842	0.000957	4	431.375	0.00126	429.5774
1700-1800	978479	0.000949	4	415.0820	0.00936	980514	0.000943	4	423.7324	0.0002359	429.5774
1800-1900	980514	0.000943	4	423.7324	0.0002359	980514	0.000943	4	424.6982	0.0002309	429.5774
1900-2000	980514	0.000943	4	424.6982	0.0002309	980514	0.000943	4	431.375	0.00126	429.5774
2000-2100	984942	0.000939	4	424.6982	0.0002309	984942	0.000939	4	431.375	0.00126	429.5774
2100-2200	984942	0.000936	4	431.375	0.00126	984942	0.000936	4	431.375	0.00126	429.5774
2200-2300	987354	0.000934	4	431.375	0.00126	987354	0.000934	4	431.375	0.00126	429.5774
2300-0000	988157	0.000932	4	440.1755	0.002279	988157	0.000932	4	440.1755	0.002279	429.5774

TABLE 9. MINOT 1/8 IN. THICK ASPHALT

MARCH										APRIL										MAY									
HOUR	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PHSES (n)	N	n/N									
0000-0100	978998	0.00117	0	144.3255	0	94330	0.00122	0	129.5368	0	910588	0.00127	0	116.4944	0	113.8992	0	113.8992	0										
0100-0200	972387	0.00117	0	145.4046	0	953952	0.00121	0	131.0845	0	932040	0.00126	0	117.4215	0	117.4215	0	117.4215	0										
0200-0300	980111	0.00116	0	150.6184	0	957609	0.00121	0	129.9716	0	935228	0.00125	0	121.0971	0	121.0971	0	121.0971	0										
0300-0400	931332	0.00116	0	149.3881	0	960866	0.0012	0	134.2569	0	938811	0.00124	0	119.9070	0	119.9070	0	119.9070	0										
0400-0500	986148	0.00116	0	148.7356	0	963112	0.0012	0	133.2023	0	942996	0.00124	0	123.6399	0	123.6399	0	123.6399	0										
0500-0600	988759	0.00115	0	153.6424	0	965554	0.00119	0	137.8075	0	945277	0.00123	0	127.6110	0	127.6110	0	127.6110	0										
0600-0700	991366	0.00115	0	152.5681	0	968995	0.00119	0	136.6579	0	949848	0.00122	0	126.3749	0	126.3749	0	126.3749	0										
0700-0800	993369	0.00114	0	158.7682	0	972180	0.00118	0	141.4429	0	952220	0.00122	0	125.2999	0	125.2999	0	125.2999	0										
0800-0900	996369	0.00114	0	157.2554	0	974663	0.00118	0	140.2767	0	953571	0.00122	0	124.7915	0	124.7915	0	124.7915	0										
0900-1000	998167	0.00114	0	156.5005	0	976681	0.00118	0	139.5975	0	957009	0.00122	0	119.6749	0	119.6749	0	119.6749	0										
1000-1100	998966	0.00114	0	156.1671	0	978287	0.00119	0	133.5896	0	952113	0.00123	0	115.4497	0	115.4497	0	115.4497	0										
1100-1200	999270	0.00115	0	149.8934	0	975814	0.00119	0	128.6103	0	955583	0.00124	0	111.8562	0	111.8562	0	111.8562	0										
1200-1300	999166	0.00116	0	144.5432	0	973644	0.00121	0	124.3416	0	952524	0.00125	0	111.3257	0	111.3257	0	111.3257	0										
1300-1400	991366	0.00117	0	129.3663	0	968997	0.00121	0	120.9640	0	948891	0.00126	0	108.2150	0	108.2150	0	108.2150	0										
1400-1500	985347	0.00119	0	130.3854	0	963112	0.00123	0	117.7314	0	939795	0.00127	0	106.2133	0	106.2133	0	106.2133	0										
1500-1600	980312	0.0012	0	127.0845	0	954746	0.00124	0	114.8616	0	934824	0.00128	0	106.7443	0	106.7443	0	106.7443	0										
1600-1700	974863	0.0012	0	128.9661	0	951708	0.00125	0	112.1125	0	936767	0.00128	0	105.3984	0	105.3984	0	105.3984	0										
1700-1800	970008	0.00121	0	125.3815	0	946804	0.00125	0	113.6652	0	926590	0.00129	0	102.8223	0	102.8223	0	102.8223	0										
1800-1900	966563	0.00121	0	126.5760	0	942916	0.00125	0	114.9202	0	922981	0.00129	0	103.9222	0	103.9222	0	103.9222	0										
1900-2000	964530	0.0012	0	132.5544	0	940682	0.00125	0	115.6554	0	908646	0.00129	0	104.2178	0	104.2178	0	104.2178	0										
2000-2100	964127	0.0012	0	132.7528	0	941062	0.00124	0	119.3947	0	908334	0.00128	0	109.0220	0	109.0220	0	109.0220	0										
2100-2200	965348	0.00119	0	137.9616	0	941892	0.00124	0	119.9672	0	919887	0.00128	0	112.7746	0	112.7746	0	112.7746	0										
2200-2300	967982	0.00119	0	137.0394	0	941144	0.00123	0	124.1406	0	908055	0.00127	0	111.9054	0	111.9054	0	111.9054	0										
2300-0000	971021	0.00118	0	141.7562	0	947213	0.00123	0	123.0716	0	908123	0.00127	0	105.6860	0	105.6860	0	105.6860	0										
JUNE										JULY										AUGUST									
HOUR	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PHSES (n)	N	n/N									
0000-0100	881935	0.00131	0	108.6354	0	864934	0.00133	0	106.1042	0	878185	0.00131	0	109.8761	0	109.8761	0	109.8761	0										
0100-0200	913070	0.00129	0	106.3608	0	901680	0.00133	0	106.4106	0	914724	0.00128	0	107.7395	0	107.7395	0	107.7395	0										
0200-0300	917616	0.00128	0	109.7426	0	906240	0.00129	0	109.1226	0	914724	0.00128	0	110.6696	0	110.6696	0	110.6696	0										
0300-0400	921744	0.00127	0	112.7446	0	911002	0.00129	0	107.6091	0	922275	0.00127	0	112.4391	0	112.4391	0	112.4391	0										
0400-0500	926022	0.00126	0	115.6659	0	915550	0.00129	0	110.4039	0	926590	0.00126	0	115.6600	0	115.6600	0	115.6600	0										
0500-0600	930395	0.00125	0	114.3167	0	920093	0.00127	0	113.3147	0	934506	0.00125	0	117.6968	0	117.6968	0	117.6968	0										
0600-0700	934306	0.00125	0	117.5969	0	924242	0.00127	0	115.1140	0	934547	0.00124	0	115.9245	0	115.9245	0	115.9245	0										
0700-0800	938406	0.00125	0	116.3978	0	928337	0.00126	0	119.8075	0	932791	0.00125	0	115.9245	0	115.9245	0	115.9245	0										
0800-0900	940867	0.00125	0	115.5882	0	931012	0.00127	0	119.8091	0	939842	0.00125	0	111.3967	0	111.3967	0	111.3967	0										
0900-1000	941687	0.00125	0	116.8161	0	932551	0.00127	0	109.3565	0	939842	0.00126	0	103.5628	0	103.5628	0	103.5628	0										
1000-1100	940662	0.00125	0	116.3110	0	931629	0.00128	0	105.3984	0	937791	0.00128	0	100.7233	0	100.7233	0	100.7233	0										
1100-1200	937996	0.00127	0	107.3421	0	924636	0.00129	0	102.0952	0	939719	0.00128	0	104.2475	0	104.2475	0	104.2475	0										
1200-1300	933384	0.00128	0	104.7813	0	924831	0.0013	0	99.4574	0	942618	0.00129	0	107.4615	0	107.4615	0	107.4615	0										
1300-1400	928433	0.00129	0	102.2764	0	919309	0.0013	0	101.0709	0	93576	0.0013	0	108.4609	0	108.4609	0	108.4609	0										
1400-1500	922755	0.0013	0	100.0505	0	936979	0.00131	0	99.0140	0	94387	0.0013	0	104.5277	0	104.5277	0	104.5277	0										
1500-1600	916745	0.0013	0	101.8086	0	939292	0.00131	0	100.9202	0	93635	0.0013	0	102.2298	0	102.2298	0	102.2298	0										
1600-1700	911415	0.0013	0	103.4085	0	938681	0.00131	0	102.8515	0	938891	0.00131	0	100.2475	0	100.2475	0	100.2475	0										
1700-1800	906447	0.0013	0	104.9258	0	938122	0.00131	0	104.5129	0	938272	0.00131	0	101.9725	0	101.9725	0	101.9725	0										
1800-1900	902510	0.0013	0	106.1500	0	939420	0.0013	0	110.1562	0	939078	0.0013	0	107.4615	0	107.4615	0	107.4615	0										
1900-2000	899006	0.0013	0	107.0656	0	939340	0.0013	0	111.1919	0	938993	0.0013	0	108.4609	0	108.4609	0	108.4609	0										
2000-2100	898261	0.0013	0	107.5415	0	939405	0.0013	0	107.5495	0	939298	0.0013	0	104.7071	0	104.7071	0	104.7071	0										
2100-2200	898568	0.0013	0	107.3956	0	939311	0.0013	0	107.4818	0	939362	0.0013	0	104.5277	0	104.5277	0	104.5277	0										
2200-2300	900336	0.0013	0	106.8026	0	939363	0.0013	0	106.8119	0	939363	0.0013	0	107.7231	0	107.7231	0	107.7231	0										
2300-0000	903046	0.0013	0	105.8026	0	939344	0.0013	0	105.6860	0	939346	0.0013	0	106.6065	0	106.6065	0	106.6065	0										

TABLE 9 CONTINUED

		SEPTEMBER				OCTOBER			
INSTR	MODULUS	STRAIN	H PASSES (n)	H H/H	H H/H	MODULUS	STRAIN	H PASSES (n)	H H/H
0000-0100	882768	0.00164	0	35.23840	0	934095	0.00123	0	127.7317
0100-0200	913690	0.00161	0	35.25804	0	947826	0.00123	0	122.8536
0200-0300	916936	0.00161	0	34.92930	0	951299	0.00122	0	126.7367
0300-0400	920300	0.0016	0	35.68163	0	954564	0.00121	0	130.8607
0400-0500	923600	0.00159	0	36.46336	0	95824	0.00121	0	129.6771
0500-0600	926896	0.00158	0	37.28151	0	96079	0.0012	0	133.9535
0600-0700	930183	0.00158	4	36.93081	0.108310	963924	0.0012	4	132.9034
0700-0800	932479	0.00157	4	37.76502	0.105918	966958	0.00119	4	137.4227
0800-0900	936970	0.00156	4	38.60519	0.103613	969805	0.00118	4	142.2300
0900-1000	939842	0.00156	4	38.29150	0.104461	972083	0.00119	4	135.5226
1000-1100	941277	0.00157	4	36.93697	0.108292	972842	0.00119	4	135.2225
1100-1200	940662	0.00159	4	34.73205	0.151567	971830	0.0012	4	130.0415
1200-1300	937791	0.0016	4	32.8959	0.121680	968793	0.00122	4	120.7290
1300-1400	932862	0.0016	2	32.34884	0.123614	969924	0.00124	4	112.8065
1400-1500	926690	0.0016	3	31.92259	0.125303	951620	0.00125	4	110.2774
1500-1600	919681	0.00161	4	31.59396	0.126606	951095	0.00126	4	107.9188
1600-1700	913070	0.0016	4	32.20227	0.124195	944554	0.00127	4	105.6619
1700-1800	906966	0.0016	4	32.79830	0.121957	938817	0.00127	4	107.3934
1800-1900	902302	0.0016	1	33.24179	0.090082	934712	0.00127	4	108.6559
1900-2000	899191	0.00161	1	33.54918	0.029806	933451	0.00126	4	113.7634
2000-2100	898568	0.0016	1	34.65395	0.028885	932246	0.00126	4	113.8321
2100-2200	900202	0.00163	1	34.58605	0.028960	933890	0.00125	4	117.9039
2200-2300	902302	0.00163	1	34.22407	0.029176	936765	0.00125	4	116.9420
2300-2400	905411	0.00162	1	35.02253	0.028533	94047	0.00124	4	120.6047

FIGURE 10. WILLIAMS 3 INCH THICK ASPHALT

TABLE 10. CONTINUED

HOUR	MODULUS	STRAIN	AUGUST			SEPTEMBER			OCTOBER			DECEMBER					
			PASSES (n)	N n/H	MODULUS	PASSES (n)	N n/H	MODULUS	PASSES (n)	N n/H	MODULUS	PASSES (n)	N n/H	MODULUS			
0000-0100 704544 0.00195	0	27.04384	0	707020 0.00195	0	2b.79218	0	714014 0.00194	0	26.77508	0	26.65146	0	26.52553			
0100-0200 705782 0.00195	0	26.91760	0	708258 0.00195	0	26.66755	0	716525 0.00194	0	26.49635	0	26.49647	0	26.49647			
0200-0300 702020 0.00195	0	26.79218	0	703024 0.00195	0	26.46355	0	717758 0.00194	0	26.36503	0	26.36503	0	26.36503			
0300-0400 709084 0.00195	0	26.58985	0	711927 0.00194	0	26.98274	0	719859 0.00193	0	26.81643	0	26.81643	0	26.81643			
0400-0500 710324 0.00195	0	26.46135	0	713621 0.00194	0	26.81640	0	720193 0.00193	0	26.76107	0	26.76107	0	26.76107			
0500-0600 710390 0.00194	0	26.94107	0	715285 0.00194	0	26.65146	0	721052 0.00193	0	26.56142	0.15059	26.56142	0.15059	27.13758			
0600-0700 714044 0.00194	0	26.79392	0.149392	716522 0.00194	0	26.56142	0.15059	724398 0.00192	0	26.49647	0.15124	26.49647	0.15124	26.49647			
0700-0800 665287 0.00186	0	39.98554	0.100036	716113 0.00194	0	26.56142	0.15059	724398 0.00192	0	26.49647	0.15124	26.49647	0.15124	26.49647			
0800-0900 623342 0.00194	0	31.30270	0.122724	707846 0.00195	0	27.09505	0.149242	717354 0.00194	0	26.95563	0.14836	26.95563	0.14836	26.95563			
0900-1000 671842 0.00194	0	30.75146	0.130039	696304 0.00195	0	27.09515	0.149242	705052 0.00194	0	26.95563	0.14836	26.95563	0.14836	26.95563			
1000-1100 671573 0.00193	0	31.97186	0.125110	688983 0.00194	0	30.02701	0.139213	693013 0.00195	0	28.2527	0.14154	28.2527	0.14154	28.2527			
1100-1200 663268 0.00191	0	31.39739	0.116287	672533 0.00192	0	30.02701	0.139213	693013 0.00195	0	28.1876	0.13731	28.1876	0.13731	28.1876			
1200-1300 665567 0.00189	0	37.09237	0.107838	664381 0.00192	0	36.00864	0.111084	671715 0.00192	0	33.18656	0.120591	33.18656	0.120591	33.18656			
1300-1400 659503 0.00188	0	30.01688	0	659097 0.00188	0	38.78174	0.103141	665601 0.00192	0	35.83301	0.111621	35.83301	0.111621	35.83301			
1400-1500 655285 0.00188	0	38.90936	0.102993	656662 0.00188	0	40.22456	0.099441	663160 0.00192	0	36.18860	0.110541	36.18860	0.110541	36.18860			
1500-1600 65691 0.00188	0	38.84598	0.102992	657879 0.00188	0	40.22456	0.099441	663160 0.00192	0	35.95506	0.111225	35.95506	0.111225	35.95506			
1600-1700 661940 0.00191	0	36.36360	0.110005	666783 0.00192	0	36.12460	0.101961	669268 0.00192	0	33.1936	0.11936	33.1936	0.11936	33.1936			
1700-1800 666823 0.00192	0	33.83937	0.118205	670808 0.00193	0	32.54937	0.122903	674338 0.00194	0	30.80638	0.129841	30.80638	0.129841	30.80638			
1800-1900 670573 0.00192	0	31.15629	0.02096	679429 0.00192	0	29.78418	0.133574	687674 0.00196	0	28.1876	0.035561	28.1876	0.035561	28.1876			
1900-2000 682164 0.00191	0	29.35984	0.024061	691370 0.00196	0	27.72092	0.036073	693165 0.00196	0	26.90285	0.037151	26.90285	0.037151	26.90285			
2000-2100 694602 0.00191	0	27.58910	0.026245	698362 0.00196	0	26.98442	0.037054	705292 0.00195	0	26.9160	0.037615	26.9160	0.037615	26.9160			
2100-2200 697950 0.00191	0	27.02930	0.026463	7013131 0.00195	0	27.34131	0.034154	709354 0.00195	0	26.9095	0.037861	26.9095	0.037861	26.9095			
2200-2300 701245 0.00191	0	26.69224	0.026463	701658 0.00195	0	27.08613	0.034614	710737 0.00195	0	26.91760	0.037150	26.91760	0.037150	26.91760			
2300-0000 702894 0.00195	0	27.21335	0.026463	705782 0.00195	0	27.1150	0.034797	711977 0.00195	0	26.98274	0.037861	26.98274	0.037861	26.98274			
HOUR	MODULUS	STRAIN	NOVEMBER			DECEMBER			NOVEMBER			DECEMBER					
			PASSES (n)	N n/H	MODULUS	PASSES (n)	N n/H	MODULUS	PASSES (n)	N n/H	MODULUS	PASSES (n)	N n/H	MODULUS	PASSES (n)		
			0000-0100 723568 0.00192	0	27.22061	0	726886 0.00192	0	26.89074	0	26.89074	0	26.89074	0	26.89074	0	26.89074
			0100-0200 723393 0.00192	0	27.13758	0	727716 0.00192	0	26.80908	0	26.80908	0	26.80908	0	26.80908	0	26.80908
			0200-0300 725057 0.00192	0	26.92584	0	728691 0.00191	0	27.39200	0	27.39200	0	27.39200	0	27.39200	0	27.39200
			0300-0400 723031 0.00192	0	26.84986	0	729791 0.00191	0	27.31025	0	27.31025	0	27.31025	0	27.31025	0	27.31025
			0400-0500 725546 0.00191	0	27.43480	0	730191 0.00191	0	27.18638	0	27.18638	0	27.18638	0	27.18638	0	27.18638
			0500-0600 729791 0.00191	0	27.31025	0	731283 0.00191	0	27.06327	0.147132	731114 0.00191	0	27.69915	0.14408	27.69915	0.14408	27.69915
			0600-0700 731032 0.00191	0	27.08911	0	732327 0.147801	0	27.34361	0.00119	732327 0.00119	0	27.57398	0.145721	27.57398	0.145721	27.57398
			0700-0800 732283 0.00191	0	27.08911	0	734355 0.147355	0	27.55606	0.00119	734355 0.00119	0	27.4958	0.145721	27.4958	0.145721	27.4958
			0800-0900 731910 0.00192	0	27.14539	0	735983 0.149895	0	27.3101	0.00119	735983 0.00119	0	27.84966	0.149162	27.84966	0.149162	27.84966
			0900-1000 72910 0.00193	0	27.00193	0	736501 0.149523	0	27.31631	0.00119	736501 0.00119	0	27.81640	0.149162	27.81640	0.149162	27.81640
			1000-1100 707433 0.00195	0	27.00195	0	738283 0.00191	0	27.06327	0.147132	738114 0.00191	0	27.4017	0.145612	27.4017	0.145612	27.4017
			1100-1200 693013 0.00194	0	27.00194	0	739503 0.147801	0	27.34361	0.00119	739503 0.00119	0	27.1092	0.139319	27.1092	0.139319	27.1092
			1200-1300 691116 0.00194	0	27.00194	0	740503 0.147355	0	27.31230	0.00119	740503 0.00119	0	27.31649	0.131941	27.31649	0.131941	27.31649
1300-1400 673756 0.00193	0	27.00193	0	742058 0.147355	0	27.31230	0.00119	742058 0.00119	0	27.55816	0.134191	27.55816	0.134191	27.55816			
1400-1500 670899 0.00192	0	27.00192	0	743494 0.147355	0	27.31230	0.00119	743494 0.00119	0	27.59438	0.135160	27.59438	0.135160	27.59438			
1500-1600 673347 0.00193	0	27.00193	0	7449895 0.147355	0	27.31230	0.00119	7449895 0.00119	0	27.1196	0.142248	27.1196	0.142248	27.1196			
1600-1700 681116 0.00195	0	27.00195	0	745160 0.147355	0	27.31230	0.00119	745160 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
1700-1800 692191 0.00195	0	27.00195	0	746338 0.147355	0	27.31230	0.00119	746338 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
1800-1900 680195 0.00195	0	27.00195	0	747452 0.147355	0	27.31230	0.00119	747452 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
1900-2000 710244 0.00194	0	27.00194	0	748577 0.147355	0	27.31230	0.00119	748577 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
2000-2100 71354 0.00194	0	27.00194	0	749718 0.147355	0	27.31230	0.00119	749718 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
2100-2200 719839 0.00193	0	27.00193	0	750812 0.147355	0	27.31230	0.00119	750812 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
2200-2300 721082 0.00193	0	27.00193	0	751912 0.147355	0	27.31230	0.00119	751912 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			
2300-0000 723225 0.00193	0	27.00193	0	753449 0.147355	0	27.31230	0.00119	753449 0.00119	0	27.08612	0.142248	27.08612	0.142248	27.08612			

TABLE II. WILLIAMS 5 INCH THICK ASPHALT

HOUR	MODULUS	STRAIN	PHASES ($\frac{1}{in}$)	N	n/N	MODULUS	STRAIN	PASSES ($\frac{1}{in}$)	N	n/N	MODULUS	STRAIN	PASSES ($\frac{1}{in}$)	N	n/N	
0000-0100	725227	0.00107	0	503.3098	0	723154	0.00108	0	484.1141	0	720667	0.00108	0	488.5792	0	488.5792
0100-0200	726371	0.00107	0	501.0153	0	724938	0.00107	0	504.8453	0	729101	0.00108	0	486.3495	0	486.3495
0200-0300	725011	0.00107	0	499.4930	0	725642	0.00107	0	502.5421	0	725658	0.00107	0	504.7772	0	504.7772
0300-0400	728546	0.00107	0	491.2214	0	726171	0.00107	0	498.7342	0	728012	0.00107	0	501.7775	0	501.7775
0400-0500	729376	0.00106	0	519.5431	0	722716	0.00107	0	496.4674	0	726052	0.00107	0	499.4930	0	499.4930
0500-0600	730622	0.00106	0	517.1852	0	729861	0.00107	0	518.7561	0.00107	722301	0.00107	0	491.2214	0.000804	491.2214
0600-0700	731552	0.00106	0	515.6227	0.001757	729791	0.00106	0	516.4039	0.001745	725546	0.00107	0	496.4674	0.000805	496.4674
0700-0800	732699	0.00106	0	513.2873	0.001792	731037	0.00106	0	515.6227	0.001745	729691	0.00107	0	490.2553	0.000799	490.2553
0800-0900	732999	0.00106	0	513.2873	0.001792	731452	0.00106	0	515.6227	0.001745	728886	0.00107	0	490.2553	0.000799	490.2553
0900-1000	729291	0.00107	4	494.9641	0.0008081	725546	0.00107	4	492.2214	0.0008044	722325	0.00108	4	485.5952	0.000823	485.5952
1000-1100	722983	0.00108	4	482.6362	0.0008287	723154	0.00108	4	484.1141	0.0008262	716113	0.00109	4	474.5240	0.000842	474.5240
1100-1200	716527	0.00109	4	473.7931	0.0008442	715699	0.00109	4	475.2559	0.0008416	709894	0.00109	4	481.1635	0.000821	481.1635
1200-1300	708671	0.00108	4	510.9316	0.000828	707846	0.00108	4	512.5201	0.0008104	708984	0.00108	4	522.1934	0.000765	522.1934
1300-1400	702882	0.00108	4	510.9316	0.000828	701658	0.00108	4	524.6545	0.0007624	697538	0.00107	4	558.3219	0.000716	558.3219
1400-1500	692550	0.00107	4	557.4500	0.001725	698155	0.00107	4	560.0872	0.001714	692427	0.00106	4	592.5814	0.000675	592.5814
1500-1600	696504	0.00107	4	560.9637	0.002130	695070	0.00107	4	563.6248	0.002096	695602	0.00106	4	596.3457	0.000670	596.3457
1600-1700	692527	0.00108	4	523.7914	0.001949	693982	0.00107	4	561.8543	0.001913	693013	0.00107	4	568.0162	0.000674	568.0162
1700-1800	700833	0.00109	4	502.5987	0.001958	699185	0.00108	4	529.6145	0.001952	695070	0.00108	4	538.0172	0.000743	538.0172
1800-1900	707200	0.00109	4	501.9628	0.002036	703636	0.00109	4	494.0313	0.002024	703165	0.00109	4	529.6145	0.000881	529.6145
1900-2000	712390	0.00109	4	481.1618	0.002078	710737	0.00109	4	484.1498	0.002065	704544	0.00109	4	495.5745	0.000201	495.5745
2000-2100	716527	0.00108	4	496.1386	0.002015	714871	0.00109	4	476.7243	0.0020392	709911	0.00109	4	495.6525	0.000205	495.6525
2100-2200	719839	0.00108	4	490.0784	0.002040	717268	0.00108	4	493.8559	0.002024	713631	0.00109	4	477.931	0.000206	477.931
2200-2300	729110	0.00108	4	486.0745	0.000556	719839	0.00108	4	490.0794	0.002040	716527	0.00108	4	496.1386	0.000201	496.1386
2300-0000	723568	0.00107	4	506.3901	0.001974	721496	0.00108	4	487.0846	0.002053	719010	0.00108	4	491.5857	0.000203	491.5857
HOUR	MODULUS	STRAIN	PHASES ($\frac{1}{in}$)	N	n/N	MODULUS	STRAIN	PASSES ($\frac{1}{in}$)	N	n/N	MODULUS	STRAIN	PASSES ($\frac{1}{in}$)	N	n/N	
APRIL	MAY	JUNE	JANUARY	APRIL	MAY	JUNE	JANUARY	APRIL	MAY	JUNE	JANUARY	APRIL	MAY	JUNE	JANUARY	
0000-0100	715699	0.00109	0	475.2559	0	711150	0.00109	0	483.4009	0	707020	0.00109	0	490.9628	0	490.9628
0100-0200	717268	0.00108	0	479.8558	0	714871	0.00109	0	476.7243	0	704947	0.00109	0	486.4981	0	486.4981
0200-0300	719839	0.00108	0	490.0784	0	71640	0.00108	0	495.3773	0	715653	0.00109	0	482.6555	0	482.6555
0300-0400	721496	0.00108	0	486.0846	0	718182	0.00108	0	493.0975	0	713217	0.00109	0	479.6683	0	479.6683
0400-0500	722397	0.00108	0	501.0108	0	719839	0.00108	0	490.0784	0	715285	0.00109	0	495.3773	0	495.3773
0500-0600	724398	0.00107	0	504.0453	0	720496	0.00108	4	487.0846	0.008212	718182	0.00108	0	474.5240	0.000811	474.5240
0600-0700	725642	0.00107	4	502.5421	0.002059	721496	0.00108	4	498.5292	0.008192	716113	0.00109	4	481.9059	0.000830	481.9059
0700-0800	724398	0.00108	4	491.9017	0.008900	720667	0.00108	4	473.7937	0.008442	71197	0.00109	4	481.9059	0.000830	481.9059
0800-0900	720253	0.00108	4	499.3280	0.008174	715527	0.00109	4	51.1037	0.008261	703369	0.00108	4	51.3016	0.000731	51.3016
0900-1000	714044	0.00109	4	478.1972	0.008364	703307	0.00108	4	481.1498	0.008767	698362	0.00107	4	556.5740	0.000718	556.5740
1000-1100	707020	0.00108	4	514.1174	0.007780	699304	0.00107	4	587.3836	0.006803	690959	0.00105	4	629.2595	0.000635	629.2595
1100-1200	699597	0.00107	4	553.9534	0.0087220	689222	0.00104	4	663.2467	0.006300	684803	0.00102	4	744.905	0.000536	744.905
1200-1300	693013	0.00105	4	624.3014	0.006407	689222	0.00104	4	746.1505	0.005360	674979	0.00102	4	865.4371	0.000462	865.4371
1300-1400	681624	0.00104	4	668.5367	0.005983	689393	0.00102	4	748.0099	0.005994	675390	0.00102	4	868.5617	0.000412	868.5617
1400-1500	683574	0.00102	4	649.3280	0.005343	680297	0.00101	4	837.0954	0.004775	673756	0.000968	4	1010.6012	0.000395	1010.6012
1500-1600	681525	0.00102	4	754.5478	0.005301	67251	0.00102	4	856.6142	0.004669	673347	0.000923	4	991.5817	0.000403	991.5817
1600-1700	681395	0.00102	4	753.3394	0.005309	672842	0.00101	4	845.1984	0.004732	674981	0.000988	4	907.966	0.000440	907.966
1700-1800	683574	0.00104	4	679.2723	0.005988	679475	0.00101	4	799.0254	0.005006	678251	0.00101	4	802.8866	0.000440	802.8866
1800-1900	681264	0.00105	4	638.3160	0.001566	682754	0.00104	4	681.5216	0.001462	680104	0.00101	4	679.2723	0.000174	679.2723
1900-2000	693062	0.00107	4	504.6695	0.001757	690175	0.00106	4	538.8636	0.001855	690137	0.00107	4	536.3197	0.000186	536.3197
2000-2100	699597	0.00109	4	493.0313	0.002024	700421	0.00109	4	503.3869	0.001986	685892	0.00108	4	536.3197	0.000186	536.3197
2100-2200	703369	0.00109	4	495.6530	0.002059	708911	0.00109	4	494.8030	0.002021	700833	0.00109	4	496.3495	0.000201	496.3495
2200-2300	708911	0.00109	4	497.6763	0.002084	713217	0.00109	4	498.6711	0.002046	703131	0.00109	4	496.3495	0.000201	496.3495

TABLE II. CONTINUED

HOUR	MODULUS	STRAIN	PHSES (n)	N	n/N	AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
						MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0100-0100	702482	0.00109	0	499.4606	0	70495b	0.00109	0	494.8030	0	707846	0.00109	0	489.4375	0	504.8453	0	504.8453	0	
0100-0200	704131	0.00109	0	496.3495	0	707030	0.00109	0	490.9628	0	709497	0.00109	0	486.4081	0	502.5421	0	502.5421	0	
0200-0300	705782	0.00109	0	493.2612	0	708298	0.00109	0	488.6791	0	711150	0.00109	0	483.4009	0	501.6153	0	501.6153	0	
0300-0400	707020	0.00109	0	490.9628	0	709911	0.00109	0	485.5525	0	712380	0.00109	0	481.1618	0	502.2243	0	502.2243	0	
0400-0500	708258	0.00109	0	488.6791	0	711150	0.00109	0	483.4009	0	714044	0.00109	0	478.972	0	509.7895	0	509.7895	0	
0500-0600	709911	0.00109	0	485.5525	0	712865	0.00109	0	480.4174	0	715257	0.00109	0	475.9893	0	504.129	0	504.129	0	
0600-0700	711563	0.00109	0	482.6535	0	714044	0.00109	0	478.1972	0.0008364	716527	0.00109	0	476.1386	0.000836	717354	0.00109	494.6158	0.000836	
0700-0800	710337	0.00109	0	484.1498	0	708287	0.000861	0	476.6108	0.0006329	714921	0.00109	0	476.2743	0.0006329	715621	0.00109	494.6158	0.0006329	
0800-0900	702433	0.00109	0	490.1993	0	692915	0.00105	0	696.2291	0.0006396	714921	0.00109	0	696.4491	0.0006396	715621	0.00109	494.6158	0.0006396	
0900-1000	702482	0.00109	0	523.0160	0	697047	0.00105	0	631.5588	0.0006396	709497	0.00109	0	646.4081	0.0006396	709497	0.00109	523.8844	0.0006396	
1000-1100	697127	0.00107	0	539.2055	0	697153	0.00104	0	667.4530	0.0005932	702070	0.00108	0	652.8076	0.0005932	702070	0.00108	523.8844	0.0005932	
1100-1200	691310	0.00105	0	638.2631	0	684803	0.00103	0	709.4928	0.0005337	694247	0.00106	0	592.1674	0.0005337	694247	0.00106	523.8844	0.0005337	
1200-1300	686443	0.00103	0	704.9844	0	685673	0.00101	0	793.9178	0.0005198	687264	0.00103	0	702.7223	0.0005198	687264	0.00103	523.8844	0.0005198	
1300-1400	681935	0.00101	0	701.3793	0	6851054	0.0009895	0	893.2597	0.0004327	681116	0.001	0	834.4156	0.0004327	681116	0.001	834.4156	0.0004327	
1400-1500	679659	0.000997	0	653.9670	0	68484	0.000979	0	933.0042	0.0004193	672055	0.000984	0	919.1555	0.0004193	672055	0.000984	919.1555	0.0004193	
1500-1600	679733	0.000997	0	681.9056	0	68484	0.000979	0	978.0042	0.0004193	675169	0.000979	0	948.9428	0.0004193	675169	0.000979	948.9428	0.0004193	
1600-1700	677025	0.000992	0	881.5506	0	694339	0.000974	0	674.5713	0.0004098	675798	0.000989	0	900.4780	0.0004098	675798	0.000989	900.4780	0.0004098	
1700-1800	678251	0.00101	0	802.8866	0	694982	0.00096	0	867.8758	0.000408	678560	0.00101	0	801.5277	0.000408	678560	0.00101	801.5277	0.000408	
1800-1900	680216	0.00102	0	756.9696	0	694321	0.00096	0	759.3992	0.000416	683164	0.00104	0	680.3632	0.000416	683164	0.00104	525.9328	0.000416	
1900-2000	684003	0.00105	0	644.4476	0	691551	0.00095	0	634.4476	0.001551	689227	0.00107	0	535.1648	0.001551	689227	0.00107	535.1648	0.001551	
2000-2100	694037	0.00107	0	538.8625	0	691440	0.000955	0	536.3197	0.00164	700009	0.00108	0	527.5547	0.00164	700009	0.00108	527.5547	0.00164	
2100-2200	694638	0.00108	0	532.1156	0	691879	0.000954	0	527.9547	0.00164	702894	0.00109	0	528.6808	0.000200	702894	0.00109	528.6808	0.000200	
2200-2300	697250	0.00108	0	527.9547	0.00164	700009	0.00108	0	527.9547	0.00164	703307	0.00109	0	527.9547	0.00164	703307	0.00109	527.9547	0.00164	
2300-0000	700009	0.00108	0	527.9547	0.00164	700009	0.00108	0	527.9547	0.00164	705782	0.00109	0	527.9547	0.00164	705782	0.00109	527.9547	0.00164	
JULY																				
HOUR	MODULUS	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	713217	0.00109	0	479.5763	0	721496	0.00108	0	487.0846	0	724398	0.00102	0	504.8453	0	504.8453	0	504.8453	0	
0100-0200	714211	0.00109	0	476.1243	0	722533	0.00108	0	484.553	0	726421	0.00107	0	502.5421	0	502.5421	0	502.5421	0	
0200-0300	716327	0.00108	0	496.1386	0	723983	0.00107	0	505.6169	0	726421	0.00107	0	501.6153	0	501.6153	0	501.6153	0	
0300-0400	717268	0.00108	0	493.8558	0	725227	0.00107	0	503.3088	0	722301	0.00107	0	499.930	0	499.930	0	499.930	0	
0400-0500	719109	0.00108	0	491.9857	0	726471	0.00107	0	501.9153	0	728316	0.00107	0	519.5431	0	519.5431	0	519.5431	0	
0500-0600	720253	0.00108	0	489.4280	0	727301	0.00107	0	499.4930	0	729316	0.00106	0	517.1852	0.000773	517.1852	0.000773	517.1852	0.000773	
0600-0700	722196	0.00108	0	487.0846	0	728546	0.00107	0	497.2214	0.0008044	730622	0.00106	0	515.6227	0.000775	515.6227	0.000775	515.6227	0.000775	
0700-0800	722239	0.00108	0	484.8553	0	729392	0.00106	0	519.5431	0.000799	731293	0.00106	0	514.6168	0.000778	514.6168	0.000778	514.6168	0.000778	
0800-0900	721082	0.00108	0	487.8302	0	729591	0.00106	0	518.5561	0	732283	0.00106	0	514.6168	0.000778	514.6168	0.000778	514.6168	0.000778	
0900-1000	721613	0.00108	0	474.1240	0	726886	0.00107	0	500.5533	0	730207	0.00107	0	494.1249	0.000809	494.1249	0.000809	494.1249	0.000809	
1000-1100	709844	0.00108	0	501.1389	0	719839	0.00108	0	490.0784	0.0008161	723983	0.00108	0	482.3382	0.000832	482.3382	0.000832	482.3382	0.000832	
1100-1200	701245	0.00107	0	623.3133	0	706417	0.00105	0	511.0160	0.0007947	707946	0.00108	0	512.5201	0.000780	512.5201	0.000780	512.5201	0.000780	
1200-1300	693225	0.00105	0	604.9102	0	705211	0.00105	0	503.8669	0.001986	704556	0.00109	0	514.6168	0.00202	514.6168	0.00202	514.6168	0.00202	
1300-1400	687264	0.00103	0	537.1648	0	701243	0.00105	0	502.7193	0.006371	700421	0.00107	0	515.6227	0.00202	515.6227	0.00202	515.6227	0.00202	
1400-1500	682254	0.00102	0	537.9335	0	705207	0.00105	0	532.5594	0.001616	593425	0.00106	0	515.6227	0.00202	515.6227	0.00202	515.6227	0.00202	
1500-1600	680706	0.00101	0	795.1928	0	7050330	0.00104	0	668.3367	0.0005983	693425	0.00106	0	594.4613	0.00672	594.4613	0.00672	594.4613	0.00672	
1600-1700	681116	0.00102	0	627.1121	0	705297	0.00105	0	604.9102	0.006162	693425	0.00107	0	561.4092	0.00707	561.4092	0.00707	561.4092	0.00707	
1700-1800	684933	0.00104	0	627.1121	0	705297	0.00105	0	562.1971	0.007052	693425	0.00108	0	531.2794	0.00752	531.2794	0.00752	531.2794	0.00752	
1800-1900	688906	0.00106	0	604.9102	0	705211	0.00105	0	503.8669	0.001986	704556	0.00109	0	494.1249	0.00202	494.1249	0.00202	494.1249	0.00202	
1900-2000	695811	0.00108	0	537.1648	0	701243	0.00105	0	502.7193	0.006371	700421	0.00107	0	494.1249	0.00202	494.1249	0.00202	494.1249	0.00202	
2000-2100	701558	0.00109	0	537.9335	0	705207	0.00105	0	503.8669	0.001986	704556	0.00109	0	494.1249	0.00202	494.1249	0.00202	494.1249	0.00202	
2100-2200	706194	0.00109	0	537.9335	0	705207	0.00105	0	503.8669	0.001986	704556	0.00109	0	494.1249	0.0					

TABLE 12. MILLIONS TO INCH THIN HISPANIC

HAIR	MODULUS	STRAIN	PHSES (n)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
				N	n/N	MATERIAL	SIPAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	
0.000-0100	688495	0.00141	0	156.7546	0	681505	0.00141	0	149.4930	0	669045	0.00141	0	146.9363	0	669045	0.00141	0	146.2558	0	
0.100-0200	708833	0.00139	0	149.0321	0	636038	0.00141	0	146.4063	0	682059	0.00141	0	143.8173	0	682059	0.00141	0	143.5218	0	
0.200-0300	704541	0.00138	0	152.3512	0	700039	0.00139	0	149.5000	0	695892	0.0014	0	146.5000	0	695892	0.0014	0	145.5000	0	
0.300-0400	708465	0.00137	0	155.6736	0	703719	0.00138	0	152.8277	0	700039	0.00139	0	149.5000	0	700039	0.00139	0	148.5000	0	
0.400-0500	711922	0.00136	0	159.3676	0	702433	0.00137	0	156.2296	0	704131	0.00138	0	152.5095	0	704131	0.00138	0	151.5095	0	
0.500-0600	715639	0.00135	0	163.0564	0	710731	0.00137	0	151.3510	0	704131	0.00138	0	150.0563	0	704131	0.00138	0	149.0563	0	
0.600-0700	719010	0.00135	0	166.0828	0.024831	714251	0.00136	0	156.0190	0.025313	707846	0.00137	0	156.0190	0.025313	707846	0.00137	0	155.0190	0.025313	
0.700-0800	722325	0.00135	0	165.1467	0.024220	720667	0.00135	0	166.1612	0.024012	715078	0.00136	0	157.5225	0.025391	715078	0.00136	0	156.0339	0.025391	
0.800-0900	725434	0.00133	0	167.4981	0.023599	725458	0.00134	0	164.3917	0.024332	717561	0.00135	0	156.0339	0.025627	717561	0.00135	0	155.0339	0.025627	
0.900-1000	728329	0.00133	0	162.7024	0.023851	725632	0.00134	0	163.1226	0.024518	718182	0.00135	0	156.0339	0.026644	718182	0.00135	0	155.0339	0.026644	
1.000-1100	729992	0.00133	0	166.6880	0.023996	725434	0.00136	0	151.6102	0.026383	716320	0.00139	0	149.5950	0.028449	716320	0.00139	0	148.5950	0.028449	
1.100-1200	729791	0.00135	0	154.8188	0.025936	725434	0.00136	0	145.7138	0.027977	712925	0.00138	0	142.8851	0.029013	712925	0.00138	0	141.8851	0.029013	
1.200-1300	726264	0.00137	0	145.7125	0.027451	716527	0.0014	0	135.5444	0.029510	705363	0.00141	0	136.3227	0.029327	705363	0.00141	0	135.7296	0.029456	
1.300-1400	720252	0.00139	0	138.5622	0.028867	716527	0.00141	0	134.7157	0.029594	697333	0.00142	0	140.0987	0.028551	697333	0.00142	0	140.0987	0.028551	
1.400-1500	712184	0.00141	0	132.9421	0.030088	712184	0.00141	0	134.4665	0.029237	689111	0.00142	0	144.4083	0.027699	689111	0.00142	0	144.4083	0.027699	
1.500-1600	703367	0.00141	0	137.4610	0.029999	699803	0.00142	0	138.3927	0.028778	689132	0.00142	0	146.4104	0.026952	689132	0.00142	0	145.3025	0.026688	
1.600-1700	694638	0.00142	0	137.1371	0.029167	691166	0.00142	0	142.9154	0.027988	674368	0.00142	0	147.5347	0.026778	674368	0.00142	0	146.5347	0.026778	
1.700-1800	687264	0.00142	0	141.1043	0.028347	683983	0.00142	0	145.6881	0.026663	669472	0.00142	0	147.5347	0.026778	669472	0.00142	0	146.5347	0.026778	
1.800-1900	682334	0.00142	0	143.8322	0.026692	679083	0.00142	0	141.9140	0.027046	676820	0.00143	0	147.2554	0.026727	676820	0.00143	0	146.4444	0.026727	
1.900-2000	680297	0.00142	0	144.9883	0.026897	672422	0.00143	0	141.5720	0.027046	666659	0.00143	0	147.2554	0.026727	666659	0.00143	0	146.4444	0.026727	
2.000-2100	681116	0.00142	0	144.5442	0.026619	672422	0.00143	0	141.5238	0.027131	668860	0.00144	0	147.2554	0.026727	668860	0.00144	0	146.4444	0.026727	
2.100-2200	683738	0.00142	0	143.0596	0.026639	679888	0.00143	0	140.7138	0.026985	672327	0.00143	0	147.2554	0.026727	672327	0.00143	0	146.4444	0.026727	
2.200-2300	687564	0.00141	0	145.9374	0.026685	683524	0.00142	0	143.1434	0.026985	670651	0.00143	0	147.2554	0.026727	670651	0.00143	0	146.4444	0.026727	
2.300-2400	691781	0.00141	0	148.8538	0.026677	687674	0.00141	0	145.9474	0.026685	670651	0.00143	0	147.2554	0.026727	670651	0.00143	0	146.4444	0.026727	
HAIR	MODULUS	STRAIN	PHSES (n)	N	n/N	MATERIAL	SIPAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	
0.000-0100	634462	0.00147	0	146.8652	0	617268	0.00148	0	152.7550	0	600624	0.00147	0	169.9627	0	600624	0.00147	0	168.0627	0	
0.100-0200	664381	0.00144	0	143.9999	0	652812	0.00145	0	145.7293	0	641502	0.00144	0	154.3779	0	641502	0.00144	0	153.3779	0	
0.200-0300	670267	0.00144	0	140.6433	0	658498	0.00145	0	142.4447	0	647351	0.00144	0	145.6492	0	647351	0.00144	0	144.3388	0	
0.300-0400	676003	0.00143	0	142.3115	0	664177	0.00144	0	144.1178	0	664177	0.00144	0	144.1178	0	664177	0.00144	0	143.1178	0	
0.400-0500	681525	0.00142	0	144.2932	0	669472	0.00144	0	141.1000	0	668660	0.00143	0	145.3868	0.028755	668660	0.00143	0	143.8669	0.028556	
0.500-0600	686894	0.00141	0	146.4122	0	674573	0.00143	0	143.1773	0	664427	0.00144	0	144.1178	0	664427	0.00144	0	143.1178	0	
0.600-0700	691181	0.00141	0	148.8538	0.026471	679683	0.00142	0	145.3277	0	674573	0.00143	0	144.1178	0	674573	0.00143	0	143.1178	0	
0.700-0800	695304	0.00139	0	151.6229	0.026380	684598	0.00142	0	145.5135	0	678660	0.00143	0	143.8669	0.028390	678660	0.00143	0	142.8669	0.028390	
0.800-0900	700421	0.00139	0	149.2658	0.026797	690959	0.00141	0	145.1023	0	680502	0.00143	0	144.3388	0.028755	680502	0.00143	0	143.3388	0.028755	
0.900-1000	702276	0.00141	0	142.8872	0.027994	690959	0.00142	0	139.2129	0	672260	0.00143	0	142.2571	0	672260	0.00143	0	141.2571	0	
1.000-1100	702276	0.00141	0	137.9995	0.028985	690959	0.00142	0	136.0229	0	670649	0.00143	0	141.0000	0	670649	0.00143	0	140.0000	0	
1.100-1200	698900	0.00142	0	134.8889	0.029554	692624	0.00143	0	139.8211	0	662754	0.00144	0	145.9627	0	662754	0.00144	0	144.9627	0	
1.200-1300	693013	0.00142	0	138.0063	0.028984	692344	0.00143	0	142.4447	0	664427	0.00145	0	145.9627	0	664427	0.00145	0	144.9627	0	
1.300-1400	685418	0.00142	0	142.1194	0.028145	674777	0	149.4777	0	664427	0.00145	0	145.9627	0	664427	0.00145	0	144.9627	0		
1.400-1500	676411	0.00141	0	152.5139	0.026227	666009	0.0014	0	146.7031	0	653824	0.00136	0	147.9548	0.023127	653824	0.00136	0	146.9548	0.023127	
1.500-1600	667027	0.00141	0	150.3431	0.024985	652702	0.00137	0	140.2276	0	644277	0.00133	0	145.0081	0.017234	644277	0.00133	0	144.0081	0.017234	
1.600-1700	658082	0.00141	0	148.2279	0.026197	648362	0.00135	0	142.0042	0	636069	0.00133	0	146.6276	0.014831	636069	0.00133	0	145.6276	0.014831	
1.700-1800	650383	0.00138	0	145.5220	0.020557	640636	0.00134	0	139.3343	0	628247	0.00128	0	140.3343	0.013280	628247	0.00128	0	139.3343	0.013280	
1.800-1900	644374	0.00142	0	142.1194	0.028138	640863	0.00133	0	140.4777	0	622450	0.00128	0	141.4777	0.013289	622450	0.00128	0	140.4777	0.013289	
1.900-2000	640837	0.00138	0	146.7031	0.026599	630458	0.00134	0	143.1178	0	618662	0.00129	0	141.8176	0.0033313	618662	0.00129	0	140.8176	0.0033313	
2.000-2100	639689	0.0014	0	143.3873	0.026552	629248	0.00136	0	141.4447	0	617268</td										

TABLE 12. CONTINUED

HOUR	MODULUS	STRAIN	JULY			AUGUST			SEPTEMBER			OCTOBER			DECEMBER		
			N	n/N	PASSES (n)	N	n/N	PASSES (n)	H	n/N	PASSES (n)	N	n/N	PASSES (n)	H	n/N	PASSES (n)
0000-0100	600624	0.00146	125.9636	0	600624	0.00146	0	125.9636	0	600624	0.00146	0	125.9636	0	600624	0.00146	0
0100-0200	611502	0.00143	163.7018	0	611502	0.00143	0	163.7018	0	611502	0.00143	0	163.7018	0	611502	0.00143	0
0200-0300	655534	0.00143	160.9911	0	655534	0.00143	0	160.9911	0	655534	0.00143	0	160.9911	0	655534	0.00143	0
0300-0400	649777	0.00144	152.2872	0	649777	0.00144	0	152.2872	0	649777	0.00144	0	152.2872	0	649777	0.00144	0
0400-0500	633824	0.00144	150.2299	0	633824	0.00144	0	150.2299	0	633824	0.00144	0	150.2299	0	633824	0.00144	0
0500-0600	657879	0.00144	147.8240	0	657879	0.00144	0	147.8240	0	657879	0.00144	0	147.8240	0	657879	0.00144	0
0600-0700	661737	0.00144	145.5383	0.027484	661737	0.00144	0	145.5383	0.027484	661737	0.00144	0	145.5383	0.027484	661737	0.00144	0
0700-0800	665805	0.00144	143.1806	0.027936	665805	0.00144	0	143.1806	0.027936	665805	0.00144	0	143.1806	0.027936	665805	0.00144	0
0800-0900	669064	0.00144	141.3295	0.028302	669064	0.00144	0	141.3295	0.028302	669064	0.00144	0	141.3295	0.028302	669064	0.00144	0
0900-1000	671103	0.00143	145.3982	0.027556	671103	0.00143	0	145.3982	0.027556	671103	0.00143	0	145.3982	0.027556	671103	0.00143	0
1000-1100	676685	0.00143	151.9361	0.026251	676685	0.00143	0	151.9361	0.026251	676685	0.00143	0	151.9361	0.026251	676685	0.00143	0
1100-1200	668432	0.00142	160.2464	0.024961	668432	0.00142	0	160.2464	0.024961	668432	0.00142	0	160.2464	0.024961	668432	0.00142	0
1200-1300	663974	0.00141	176.1040	0.022713	663974	0.00141	0	176.1040	0.022713	663974	0.00141	0	176.1040	0.022713	663974	0.00141	0
1300-1400	658295	0.00139	194.1235	0.020541	658295	0.00139	0	194.1235	0.020541	658295	0.00139	0	194.1235	0.020541	658295	0.00139	0
1400-1500	651395	0.00137	215.7668	0.018338	651395	0.00137	0	215.7668	0.018338	651395	0.00137	0	215.7668	0.018338	651395	0.00137	0
1500-1600	644324	0.00135	239.9096	0.016272	644324	0.00135	0	239.9096	0.016272	644324	0.00135	0	239.9096	0.016272	644324	0.00135	0
1600-1700	637456	0.00133	239.9096	0.016272	637456	0.00133	0	239.9096	0.016272	637456	0.00133	0	239.9096	0.016272	637456	0.00133	0
1700-1800	631453	0.00131	264.6174	0.015115	631453	0.00131	0	264.6174	0.015115	631453	0.00131	0	264.6174	0.015115	631453	0.00131	0
1800-1900	626846	0.00131	269.8525	0.003705	626846	0.00131	0	269.8525	0.003705	626846	0.00131	0	269.8525	0.003705	626846	0.00131	0
1900-2000	623848	0.00132	263.11249	0.003800	623848	0.00132	0	263.11249	0.003800	623848	0.00132	0	263.11249	0.003800	623848	0.00132	0
2000-2100	622850	0.00132	245.1098	0.004079	622850	0.00132	0	245.1098	0.004079	622850	0.00132	0	245.1098	0.004079	622850	0.00132	0
2100-2200	623848	0.00132	248.4986	0.004576	623848	0.00132	0	248.4986	0.004576	623848	0.00132	0	248.4986	0.004576	623848	0.00132	0
2200-2300	626646	0.00139	200.8067	0.004919	626646	0.00139	0	200.8067	0.004919	626646	0.00139	0	200.8067	0.004919	626646	0.00139	0
2300-0000	630450	0.00141	183.9721	0.005435	630450	0.00141	0	183.9721	0.005435	630450	0.00141	0	183.9721	0.005435	630450	0.00141	0
HOUR	MODULUS	STRAIN	PASSES (n)			N			PASSES (n)			N			PASSES (n)		
			N	n/N	PASSES (n)	N	n/N	PASSES (n)	H	n/N	PASSES (n)	N	n/N	PASSES (n)	H	n/N	PASSES (n)

TABLE 13. WEIGHT PATTERSON: 100% THIN ASPHALT

MONTH	MODULUS	STRAIN	H	H/N	MATERIAL	PHASES (n)	N	MATERIAL	STRAIN	H	H/N	MATERIAL	PHASES (n)	N	MATERIAL	STRAIN	H	H/N	MATERIAL	PHASES (n)	N		
000-0100	981330	0.00117	0.11	0.11	22.30734	U	975368	0.00171	0	21.3044	0	968793	0.00172	0	21.67548	0	0.00172	0	21.60320	0	0.00172	0	
010-0200	982328	0.00169	0	0.00169	22.73732	U	976779	0.00172	0	22.30196	0	970008	0.00172	0	21.60320	0	0.00172	0	22.14361	0	0.00172	0	
020-0300	983333	0.00169	0	0.00169	22.73761	U	977691	0.0017	0	22.32269	0	971628	0.00171	0	22.0564	0	0.00171	0	22.0564	0	0.00171	0	
030-0400	984338	0.00169	0	0.00169	22.69806	U	978801	0.0017	0	22.35389	0	973246	0.00171	0	21.37258	0	0.00171	0	21.37258	0	0.00171	0	
040-0500	984540	0.00169	0	0.00169	22.63337	U	980111	0.0017	0	22.38042	0	974559	0.00171	0	21.39985	0	0.00171	0	21.39985	0	0.00171	0	
050-0600	985346	0.00169	0	0.00169	22.59952	U	981320	0.0017	0	22.40734	0	976883	0.00171	0	22.37716	0	0.00171	0	22.37716	0	0.00171	0	
060-0700	986148	0.00169	0	0.00169	22.57498	U	981723	0.00169	4	22.84717	0.17076	972437	0.00172	4	21.45969	0.18339	0	0.00172	0	0.00172	0	0.00172	0
070-0800	986552	0.00168	4	0.00168	23.17380	U	982931	0.00169	4	22.77242	0.17565	965548	0.00173	4	21.4534	0.18227	0	0.00173	0	0.00173	0	0.00173	0
080-0900	987255	0.00168	4	0.00168	23.15421	U	978694	0.0017	4	22.40302	0.17054	954116	0.00175	4	20.31601	0.1956	0	0.00175	0	0.00175	0	0.00175	0
090-1000	989228	0.0017	4	0.0017	23.13465	U	970413	0.00172	4	21.51918	0.18536	949666	0.00176	4	20.36337	0.19630	0	0.00176	0	0.00176	0	0.00176	0
100-1100	974655	0.00171	4	0.00171	21.96888	U	971843	0.00174	4	20.8504	0.1916	945350	0.00177	4	20.5237	0.19848	0	0.00177	0	0.00177	0	0.00177	0
1100-1200	964336	0.00173	4	0.00173	21.29303	U	978544	0.00175	4	20.26266	0.192985	945350	0.00177	4	20.41123	0.19397	0	0.00177	0	0.00177	0	0.00177	0
1200-1300	954116	0.00175	4	0.00175	20.51601	U	979699	0.00176	4	20.90440	0.19631	939022	0.00177	4	20.00720	0.19992	0	0.00177	0	0.00177	0	0.00177	0
1300-1400	952244	0.00175	4	0.00175	20.79802	U	979325	0.00178	4	20.05943	0.198407	936149	0.00178	4	20.00889	0.19891	0	0.00178	0	0.00178	0	0.00178	0
1400-1500	950893	0.00176	4	0.00176	20.33297	U	979256	0.00177	4	20.7567	0.19259	934506	0.00178	4	20.00889	0.19891	0	0.00178	0	0.00178	0	0.00178	0
1500-1600	951608	0.00175	4	0.00175	20.85557	U	9791887	0.00177	4	20.5237	0.19487	934560	0.00178	4	19.98362	0.20016	0	0.00178	0	0.00178	0	0.00178	0
1600-1700	951694	0.00174	4	0.00174	21.18435	U	978818	0.00176	4	20.3883	0.19285	934560	0.00178	4	20.31653	0.19688	0	0.00178	0	0.00178	0	0.00178	0
1700-1800	962056	0.00173	4	0.00173	21.4295	U	978802	0.00175	4	20.89091	0.194802	940662	0.00177	4	20.58830	0.19852	0	0.00177	0	0.00177	0	0.00177	0
1800-1900	971628	0.00171	4	0.00171	21.4361	U	975244	0.00174	4	21.88841	0.19419	949986	0.00175	4	20.82170	0.19802	0	0.00175	0	0.00175	0	0.00175	0
1900-2000	976779	0.0017	4	0.0017	21.50196	U	974440	0.00172	4	21.8016	0.19524	952116	0.00175	4	20.82170	0.19802	0	0.00175	0	0.00175	0	0.00175	0
2000-2100	978498	0.0017	4	0.0017	21.51843	U	9744785	0.00172	4	21.80098	0.195008	970045	0.00172	4	20.99318	0.19633	0	0.00172	0	0.00172	0	0.00172	0
2100-2200	979304	0.0017	4	0.0017	22.31938	U	9744784	0.00172	4	22.09455	0.194260	963924	0.00173	4	21.40866	0.19851	0	0.00173	0	0.00173	0	0.00173	0
2200-2300	980111	0.0017	4	0.0017	22.38042	U	973246	0.00171	4	22.04564	0.195360	963360	0.00172	4	21.19780	0.204717	0	0.00172	0	0.00172	0	0.00172	0
2300-0000	980514	0.0017	4	0.0017	22.25602	U	974931	0.00171	4	21.97459	0.194511	963577	0.00172	4	21.74815	0.194598	0	0.00172	0	0.00172	0	0.00172	0
MONTH	MODULUS	STRAIN	H	H/N	MATERIAL	PHASES (n)	N	MATERIAL	STRAIN	H	H/N	MATERIAL	PHASES (n)	N	MATERIAL	STRAIN	H	H/N	MATERIAL	PHASES (n)	N		
																						JULY	JULY
000-0100	963112	0.00173	0	0.00173	31.38885	U	955787	0.00175	0	20.60933	0	955379	0.00175	0	20.63229	0	0.00175	0	20.63229	0	0.00175	0	
010-0200	964310	0.00173	0	0.00173	21.31693	U	957099	0.00174	0	21.35631	0	958638	0.00174	0	21.34631	0	0.00174	0	21.34631	0	0.00174	0	
020-0300	965348	0.00173	0	0.00173	21.25334	U	956266	0.00174	0	21.40762	0	959879	0.00174	0	20.96947	0	0.00174	0	20.96947	0	0.00174	0	
030-0400	967711	0.00172	0	0.00172	21.77249	U	961892	0.00173	0	21.46122	0	96079	0.00174	0	20.89861	0	0.00174	0	20.89861	0	0.00174	0	
040-0500	968793	0.00172	0	0.00172	21.67549	U	963519	0.00173	0	21.36483	0	962705	0.00173	0	21.4295	0	0.00173	0	21.4295	0	0.00173	0	
050-0600	970008	0.00172	0	0.00172	21.50320	U	961486	0.00174	0	20.8504	0.191616	960687	0.00174	0	20.69721	0.193121	0	0.00174	0	0.00174	0	0.00174	0
060-0700	971223	0.00172	0	0.00172	21.51125	U	965176	0.00175	4	20.69343	0.194816	954553	0.00176	4	20.50933	0.19473	0	0.00176	0	0.00176	0	0.00176	0
070-0800	967171	0.00173	0	0.00173	21.15046	U	971921	0.00175	4	20.26941	0.19341	939432	0.00178	4	20.19543	0.19806	0	0.00178	0	0.00178	0	0.00178	0
080-0900	959452	0.00174	0	0.00174	20.93118	U	9740537	0.00176	4	20.72725	0.19229	938662	0.00178	4	20.19543	0.19806	0	0.00178	0	0.00178	0	0.00178	0
090-1000	950891	0.00174	0	0.00174	20.31648	U	974981	0.00177	4	20.26941	0.19341	939432	0.00178	4	20.19543	0.19806	0	0.00178	0	0.00178	0	0.00178	0
100-1100	943121	0.00177	4	0.00177	20.17567	U	972341	0.00178	4	20.10692	0.19832	927102	0.00179	4	20.19543	0.19806	0	0.00179	0	0.00179	0	0.00179	0
110-1200	936149	0.00178	4	0.00178	20.14924	U	928149	0.00178	4	20.10692	0.19832	927102	0.00179	4	20.19543	0.19806	0	0.00179	0	0.00179	0	0.00179	0
120-1300	930406	0.00178	4	0.00178	20.31453	U	924630	0.00178	4	20.10692	0.19832	925659	0.00179	4	20.19543	0.19806	0	0.00179	0	0.00179	0	0.00179	0
1300-1400	927226	0.00178	4	0.00178	20.48299	U	921283	0.00179	4	20.27519	0.19285	919681	0.00179	4	20.39662	0.19611	0	0.00179	0	0.00179	0	0.00179	0
1400-1500	925666	0.00178	4	0.00178	20.03552	U	920093	0.00179	4	20.32229	0.196345	918442	0.00179	4	20.47003	0.19540	0	0.00179	0	0.00179	0	0.00179	0
1500-1600	924937	0.00178	4	0.00178	20.03552	U	919514	0.00179	4	20.32236	0.196345	918442	0.00179	4	20.47003	0.19540	0	0.00179	0	0.00179	0	0.00179	0
1600-1700	924884	0.00178	4	0.00178	20.21916	U	919832	0.00178	4	20.15480													

TABLE I3. CONTINUED

HOUR	MODULUS	STRAIN	AUGUST			SEPTEMBER			NOVEMBER		
			PASSES (in.)	H	n/N	MODULUS	STRAIN	PASSES (in.)	H	n/N	PASSES (in.)
0000-0100 9590-45 0.00174	0 21.01693	0	961892	0.00173	0	21.46122	0	974863	0.00171	0	21.34832
0100-0200 962666 0.00174	0 20.94573	0	963112	0.00173	0	21.38805	0	975672	0.00171	0	21.89985
0200-0300 961486 0.00174	0 20.87504	0	964330	0.00173	0	21.31693	0	976076	0.00171	0	21.87571
0300-0400 962205 0.00173	0 21.41295	0	965954	0.00173	0	21.22155	0	977691	0.0017	0	22.32769
0400-0500 963924 0.00173	0 21.34086	0	970577	0.00172	0	21.4815	0	978094	0.0017	0	22.40307
0500-0600 965948 0.00173	0 21.24534	0	968193	0.00172	0	21.67548	0	979304	0.0017	0	22.32938
0600-0700 962765 0.00173	0 21.7414	0.1889049	962963	0.00172	0	21.62275	0.18951	980110	0.0017	0	22.38048
0700-0800 962299 0.00174	0 20.82807	0.1920449	969198	0.00172	0	21.65115	0.18745	981320	0.0017	0	22.20734
0800-0900 95564 0.00175	0 20.67937	0.193425	965918	0.00173	0	21.56493	0.18223	980514	0.0017	0	22.35602
0900-1000 945577 0.0017	0 20.53632	0.1946337	954156	0.00175	0	21.49453	0.19205	974559	0.00171	0	21.9258
1000-1100 937791 0.00178	0 19.91379	0.200865	944758	0.00177	0	20.08284	0.199176	965548	0.00173	0	21.2534
1100-1200 933935 0.00178	0 20.33846	0.19667	936149	0.00178	0	20.00701	0.199929	956602	0.00175	0	20.56257
1200-1300 926630 0.00179	0 20.10637	0.198935	925522	0.00178	0	20.38648	0.196209	949252	0.00176	0	20.39927
1300-1400 929919 0.00179	0 20.32363	0.196815	925042	0.00179	0	20.08312	0.199172	944349	0.00177	0	20.19916
1400-1500 912668 0.00179	0 20.34205	0.195876	925981	0.00179	0	20.0295	0.19991	943010	0.00177	0	20.22250
1500-1600 919681 0.00179	0 20.39622	0.196110	928086	0.00179	0	20.15480	0.198463	945530	0.0017	0	20.15237
1600-1700 921556 0.00179	0 20.37505	0.197520	927514	0.00178	0	20.50725	0.195052	947622	0.00176	0	20.4937
1700-1800 926690 0.00178	0 20.55588	0.194591	833037	0.00178	0	68.71280	0.058213	955654	0.00175	0	20.6927
1800-1900 932223 0.00178	0 20.1774	0.095274	884850	0.00176	0	68.60659	0.040649	965198	0.00173	0	21.36483
1900-2000 946662 0.00177	0 20.31653	0.099229	929237	0.00178	0	20.62913	0.04445	965987	0.00172	0	21.69970
2000-2100 948440 0.00176	0 20.44664	0.098907	945168	0.00176	0	20.63562	0.048459	971223	0.00172	0	21.53125
2100-2200 953340 0.00175	0 20.75051	0.098191	957848	0.00175	0	20.72686	0.048246	972432	0.00171	0	22.04945
2200-2300 95194 0.00175	0 20.58536	0.098576	960266	0.00174	0	21.08841	0.047419	972246	0.00171	0	22.04564
2300-0000 957416 0.00174	0 21.11237	0.047365	974055	0.00174	0	20.94519	0.047742	21.99688	0.04546	0	21.99688
DECEMBER											
HOUR	MODULUS	STRAIN	PASSES (in.)	H	n/N	PASSES (in.)	H	n/N	PASSES (in.)	H	n/N
0000-0100 981723 0.00169	0 22.84717	0	22.84717	0	0	22.74261	0	22.74261	0	0	0
0100-0200 983333 0.00169	0 22.74261	0	22.74261	0	0	22.72279	0	22.72279	0	0	0
0200-0300 98736 0.00169	0 22.64820	0	22.64820	0	0	22.64820	0	22.64820	0	0	0
0300-0400 989442 0.00169	0 22.57498	0	22.57498	0	0	23.20445	0.112380	22.57498	0.117379	0	0
0400-0500 988344 0.00169	0 22.62410	0	22.62410	0	0	22.64812	0.116610	22.64812	0.119136	0	0
0500-0600 986148 0.00169	0 22.57498	0	22.57498	0	0	22.64812	0.116610	22.64812	0.119136	0	0
0600-0700 988550 0.00169	0 22.62410	0	22.62410	0	0	22.64812	0.116610	22.64812	0.119136	0	0
0700-0800 98090 0.00169	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
0800-0900 97304 0.00171	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
0900-1000 972223 0.00172	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1000-1100 961518 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1100-1200 958182 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1200-1300 954156 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1300-1400 951340 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1400-1500 950340 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1500-1600 950190 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1600-1700 950190 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1700-1800 950190 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1800-1900 945142 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
1900-2000 947682 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
2000-2100 949498 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
2100-2200 950498 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
2200-2300 9480111 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0
2300-0000 980514 0.00173	0 22.64812	0	22.64812	0	0	22.64812	0.116610	22.64812	0.119136	0	0

TABLE 14. NIGHT PHOTON 5 INCH THICK ASPHALT

HOUR	MODULUS	STRAIN	PHASES (n)	MAY			JUNE			JULY			
				N	n/N	HODULUS	STRAIN	PASSES (n)	N	n/N	HODULUS	STRAIN	PASSES (n)
0:00 - 0:100	1,73901	0.000948	0	414.5101	0	973.456	0.000955	0	401.5536	0	967.527	0.000967	0
0:100 - 0:200	979708	0.000946	0	419.1016	0	974.459	0.000955	0	404.3133	0	968.919	0.000967	0
0:200 - 0:300	980514	0.000945	0	419.3080	0	975.672	0.000955	0	407.3402	0	970.413	0.000962	0
0:300 - 0:400	980917	0.000944	0	421.0722	0	976.479	0.000952	0	408.5823	0	971.628	0.000958	0
0:400 - 0:500	981723	0.000943	0	422.3940	0	977.631	0.000952	0	411.5392	0	972.842	0.000958	0
0:500 - 0:600	982528	0.000941	0	425.9604	0	978.498	0.000948	0	414.9852	0	973.651	0.000956	0
0:600 - 0:700	982931	0.000941	4	425.4951	0.000940	979.304	0.000947	4	416.2665	0.0009609	974.863	0.000955	4
0:700 - 0:800	983276	0.000939	4	429.1086	0.0009321	980.111	0.000945	4	419.7676	0.000929	974.055	0.000955	4
0:800 - 0:900	984138	0.000938	4	430.9914	0.000932	978.901	0.000945	4	410.1849	0.000951	971.223	0.000965	4
0:900 - 1:000	982931	0.000943	4	421.0021	0.000932	975.632	0.000955	4	396.0207	0.000960	966.785	0.000982	4
1:000 - 1:100	978901	0.000952	4	405.8943	0.000954	970.818	0.000968	4	381.7838	0.010477	961.892	0.000982	4
1:100 - 1:200	974025	0.000962	4	370.3608	0.010246	965.548	0.000977	4	369.8464	0.010815	957.009	0.000988	4
1:200 - 1:300	968387	0.000972	4	376.4998	0.010624	960.672	0.000983	4	363.5685	0.011002	952.932	0.000991	4
1:300 - 1:400	963924	0.000978	4	369.6138	0.010822	952.009	0.000987	4	359.3064	0.011113	94.9666	0.000993	4
1:400 - 1:500	960612	0.000982	4	365.4534	0.010946	954.56	0.000989	4	359.1281	0.011338	94.6804	0.000994	4
1:500 - 1:600	959302	0.000982	4	361.0719	0.010896	952.932	0.000989	4	360.3588	0.011100	94.5577	0.000994	4
1:600 - 1:700	959859	0.000979	4	371.8479	0.010755	94.522	0.000988	4	362.1861	0.011044	94.45618	0.000993	4
1:700 - 1:800	962299	0.000974	4	378.3662	0.010355	954.156	0.000986	4	364.6249	0.010970	94.6355	0.000993	4
1:800 - 1:900	966275	0.000966	1	390.0723	0.002636	957.416	0.000981	1	370.2800	0.002698	94.8948	0.000987	1
1:900 - 2:000	970818	0.000956	1	397.9598	0.002512	96.182	0.000974	1	379.9337	0.002635	95.2524	0.000987	1
2:000 - 2:100	973651	0.000956	1	403.2049	0.002480	96.5554	0.000968	1	386.9286	0.002584	95.6612	0.000981	1
2:100 - 2:200	975612	0.000953	1	407.3452	0.002454	96.87973	0.000964	1	391.3452	0.002511	96.0572	0.000972	1
2:200 - 2:300	976883	0.000951	1	410.2830	0.002437	970.818	0.000962	1	393.8392	0.002539	96.3224	0.000976	1
2:300 - 0:000	978054	0.000949	1	413.2579	0.002419	972.933	0.000959	1	398.7068	0.002308	96.5554	0.000957	1
JUN:													
HOUR	MODULUS	STRAIN	PHASES (n)	N	n/N	HODULUS	STRAIN	PASSES (n)	N	n/N	HODULUS	STRAIN	PASSES (n)
0:00 - 0:100	962205	0.000925	0	376.6932	0	956.94	0.000964	0	366.2570	0	955.329	0.000965	0
0:100 - 0:200	964330	0.000913	0	378.7834	0	957.84	0.000982	0	368.3263	0	957.416	0.000962	0
0:200 - 0:300	965548	0.000911	0	381.4152	0	959.452	0.000986	0	370.4198	0	959.045	0.000988	0
0:300 - 0:400	966765	0.000916	0	384.0762	0	961.079	0.000978	0	372.5369	0	960.266	0.000979	0
0:400 - 0:500	967982	0.000967	0	386.7656	0	962.299	0.000976	0	375.0093	0	961.922	0.000972	0
0:500 - 0:600	969198	0.000965	0	389.4849	0	963.924	0.000973	0	379.3067	0	963.112	0.000975	0
0:600 - 0:700	970413	0.000963	0	392.3345	0.010197	963.924	0.000975	0	375.3553	0.010657?	963.112	0.000976	0
0:700 - 0:800	969613	0.000966	4	397.0420	0.010334	961.892	0.000986	4	367.0420	0.010871	961.702	0.000981	4
0:800 - 0:900	968360	0.000974	4	374.3639	0.010674	958.338	0.000985	4	361.3110	0.011051	957.416	0.000970	4
0:900 - 1:000	261892	0.000982	4	364.1896	0.010983	954.956	0.000991	4	355.1988	0.011251	952.254	0.000992	4
1:000 - 1:100	956682	0.000985	4	356.6861	0.011214	94.9666	0.000994	4	354.6159	0.011279	94.8031	0.000985	4
1:100 - 1:200	951299	0.000994	4	352.959	0.011331	94.4558	0.000995	4	355.5152	0.011237?	94.3121	0.000996	4
1:200 - 1:300	946804	0.000995	4	355.6870	0.011245	94.0652	0.000995	4	361.9100	0.011052?	93.9022	0.000994	4
1:300 - 1:400	943120	0.000995	4	359.4008	0.011129	93.7791	0.000993	4	368.5595	0.010853	93.5328	0.000992	4
1:400 - 1:500	940252	0.000995	4	362.3307	0.011039	93.5238	0.000991	4	374.9120	0.010669	93.3273	0.000983	4
1:500 - 1:600	938611	0.000994	4	365.8562	0.010933	93.3684	0.000989	4	378.5901	0.010565	93.2640	0.000988	4
1:600 - 1:700	938611	0.000994	4	365.8562	0.010933	93.3273	0.000989	4	378.0246	0.010553	93.1629	0.000988	4
1:700 - 1:800	939842	0.000994	4	364.5805	0.010971	93.3684	0.000991	4	376.6739	0.010619	93.2451	0.000989	4
1:800 - 1:900	942301	0.000994	4	362.0505	0.002262	93.5228	0.000992	1	373.0262	0.002680	93.4095	0.000991	1
1:900 - 2:000	945906	0.000992	1	361.9307	0.002262	93.201	0.000994	1	366.2824	0.002230	93.6970	0.000986	1
2:000 - 2:100	950891	0.000989	1	364.3616	0.002245	94.201	0.000994	1	362.0505	0.002362	94.162	0.000994	1
2:100 - 2:200	954917	0.000984	1	367.5084	0.012221	94.6084	0.000991	1	362.9316	0.012555	94.5557	0.000992	1
2:200 - 3:00	958231	0.00098	1	371.6790	0.002269	95.0391	0.000989	1	362.4238	0.002259	95.0074	0.000993	1
3:00 Unm	360672	0.00097	1	374.8703	0.002267	95.3748	0.000986	1	365.0407	0.002239	95.2932	0.000987	1

TABLE I-4. CONTINUED

HAIR	MODULUS	STRAIN	PHSES (n)	AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			
				N	n/N	MILLIS	N	STRAIN	PHSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)
UUU-UUU	958231	0.000981	0	369.7885	0	2586.38	0.000938	0	321.2586	0	966360	0.000969	0	384.5053	0	386.7656	0	389.4849	0
0100-0100	959839	0.000979	0	371.8949	0	961019	0.000977	0	374.4474	0	967982	0.000967	0	392.6711	0	392.6711	0	392.6711	0
0200-0300	961486	0.000977	0	371.0551	0	961112	0.000974	0	378.1143	0	970008	0.000963	0	392.6711	0	392.6711	0	392.6711	0
0300-0400	962205	0.000975	0	376.5632	0	964276	0.000971	0	362.2714	0	971223	0.000961	0	395.4522	0	395.4522	0	395.4522	0
0400-0500	963924	0.000973	0	379.2087	0	965360	0.000969	0	384.5053	0	972013	0.000953	0	396.6345	0	396.6345	0	396.6345	0
0500-0600	965142	0.000971	0	381.8330	0	967577	0.000967	0	387.1972	0	973246	0.000958	0	399.1622	0	402.7654	0	402.7654	0
0600-0700	966360	0.00097	0	387.574	0	968793	0.000965	0	389.9150	0.010258	0	974055	0.000956	0	402.7654	0	402.7654	0	
0700-0800	965548	0.000973	0	387.5113	0	969613	0.000965	0	381.2466	0.010491	0	972842	0.000961	0	393.7013	0	393.7013	0	
0800-0900	962229	0.00098	0	367.5064	0.010884	962577	0.00097	0	361.0515	0.010491	0	969198	0.000969	0	381.5121	0	381.5121	0	
0900-1000	957824	0.000988	0	355.2273	0.011195	963518	0.000979	0	368.1431	0.010855	0	963224	0.000979	0	367.7300	0	367.7300	0	
1000-1100	952116	0.000993	0	353.9662	0.011302	958221	0.000988	0	352.1893	0.01357	0	958231	0.000988	0	356.8730	0	356.8730	0	
1100-1200	946804	0.000996	0	359.9050	0.011133	952116	0.000994	0	354.3128	0.011128	0	950675	0.000982	0	364.9944	0	364.9944	0	
1200-1300	941462	0.000996	0	359.2616	0.011133	946395	0.000996	0	360.6519	0.011091	0	941482	0.000982	0	364.5072	0	364.5072	0	
1300-1400	937380	0.000993	0	368.9304	0.010840	941892	0.000995	0	366.2824	0.010829	0	938201	0.000994	0	365.6432	0	365.6432	0	
1400-1500	934506	0.00099	0	367.5933	0.010590	938201	0.000994	0	369.0520	0.010855	0	938201	0.000995	0	365.6432	0	365.6432	0	
1500-1600	932862	0.000989	0	368.3521	0.010597	936350	0.000993	0	369.6563	0.010880	0	936350	0.000993	0	365.6432	0	365.6432	0	
1600-1700	932451	0.000989	0	361.8903	0.010475	936970	0.000993	0	369.1208	0.010824	0	930562	0.000984	0	400.0560	0	400.0560	0	
1700-1800	934095	0.000991	0	367.2324	0.010631	905619	0.000863	0	815.8538	0.010402	0	933223	0.000993	0	373.3336	0	373.3336	0	
1800-1900	936920	0.000993	0	369.4208	0.002706	905619	0.000915	0	608.9074	0.001642	0	941482	0.000993	0	364.7214	0	364.7214	0	
1900-2000	941022	0.000994	0	363.3120	0.002522	919268	0.000926	0	419.4198	0.002384	0	948448	0.000969	0	364.5072	0	364.5072	0	
2000-2100	945986	0.000992	0	361.2907	0.002762	933213	0.000994	0	371.3595	0.002757	0	954971	0.000963	0	369.3845	0	369.3845	0	
2100-2200	950463	0.000983	0	362.8835	0.002756	943530	0.000993	0	362.6155	0.002757	0	954299	0.000979	0	372.3155	0	372.3155	0	
2200-2300	953748	0.000986	0	365.0407	0.002739	950483	0.000988	0	364.6785	0.002742	0	964236	0.000972	0	377.0268	0	377.0268	0	
2300-0000	956194	0.000984	0	366.2570	0.002730	955379	0.000984	0	367.092	0.002742	0	964236	0.000972	0	380.3090	0	380.3090	0	

TABLE 15. WEIGHT PERTERSON TO INCH THICK ASPHALT

APRIL											
HOLD	MODULUS	STRAIN	PHASES	N	n/N	MODULUS	STRAIN	PHASES	N	n/N	
0000-0100 9178901 0.401117	0	141.7666	0	941892	0.00122	0	130.1381	0	115.6524	0	
0100-0200 9177489 0.001117	0	145.3246	0	912932	0.00122	0	126.1587	0	117.9333	0	
0200-0300 9081111 0.001117	0	144.2948	0	956398	0.00121	0	130.1930	0	121.4502	0	
0300-0400 9823227 0.00116	0	149.7146	0	959452	0.0012	0	134.5607	0	120.0558	0	
0400-0500 988751 0.00116	0	148.7385	0	962705	0.0012	0	133.3524	0	123.7114	0	
0500-0600 988751 0.00116	0	141.9324	0	965548	0.00119	0	131.9619	0	127.5376	0	
0600-0700 9888759 0.00115	0	153.6224	0.026034	968387	0.00119	0	136.8867	0.029221	126.3028	0.031689	
0700-0800 990564 0.00115	0	152.8935	0.026034	921223	0.00119	0	141.6277	0.028233	130.4149	0.030621	
0800-0900 992368 0.00115	0	152.1559	0.026269	974055	0.00118	0	140.5626	0.028433	129.3638	0.030915	
0900-1000 994170 0.00114	0	150.85287	0	915874	0.00118	0	139.8853	0.028594	123.6072	0.032360	
1000-1100 995370 0.00115	0	150.9380	0.026500	976479	0.00119	0	138.8844	0.029876	118.8850	0.033651	
1100-1200 995170 0.00115	0	151.0088	0.026486	915420	0.00112	0	128.7223	0.031067	114.7264	0.034844	
1200-1300 993369 0.00116	0	145.3205	0.027525	972235	0.00121	0	124.6175	0.032058	111.5381	0.035862	
1300-1400 989963 0.00118	0	134.6424	0.029798	967324	0.00123	0	116.3541	0.034327	108.8658	0.036747	
1400-1500 989942 0.00119	0	130.8405	0.030571	961475	0.00124	0	113.5707	0.035220	106.3982	0.037594	
1500-1600 9179304 0.00112	0	127.4134	0.031333	951775	0.00125	0	111.0313	0.036250	955944	0.038421	
1600-1700 9723853 0.00121	0	124.0665	0.032240	949257	0.00126	0	108.4965	0.036874	929778	0.039246	
1700-1800 963198 0.00121	0	125.6019	0.031831	943940	0.00126	0	110.1126	0.036326	103.4340	0.038671	
1800-1900 965954 0.00112	0	132.1604	0.007256	939842	0.00126	0	111.3637	0.008976	104.6111	0.009559	
1900-2000 969339 0.00112	0	132.5932	0.007545	933946	0.00125	0	116.6393	0.008581	918029	0.009485	
2000-2100 963345 0.00119	0	138.0393	0.007244	935386	0.00125	0	116.6393	0.008571	917203	0.009101	
2100-2200 967374 0.00118	0	137.2630	0.007284	939432	0.00124	0	120.8153	0.008277	920919	0.009128	
2200-2300 959603 0.00118	0	142.3934	0.007026	942301	0.00124	0	119.8275	0.008344	113.0404	0.008846	
2300-0000 972437 0.00118	0	141.2658	0.007081	945577	0.00123	0	123.6399	0.008088	111.9054	0.008936	
JULY											
HOLD	MODULUS	STRAIN	PHASES	N	n/N	MODULUS	STRAIN	PHASES	N	n/N	
0000-0100 989943 0.00113	0	110.2248	0	862745	0.00133	0	106.7802	0	856058	0.00133	
0100-0200 918442 0.00128	0	107.4979	0	900436	0.00113	0	106.8028	0	836077	0.00131	
0200-0300 922775 0.00127	0	112.4391	0	909336	0.00113	0	105.4386	0	906443	0.00113	
0300-0400 926896 0.00126	0	115.5915	0	909346	0.00129	0	108.1321	0	905411	0.00129	
0400-0500 930806 0.00126	0	114.0026	0	913630	0.00128	0	111.0337	0	909760	0.00129	
0500-0600 934917 0.00125	0	117.5391	0	917823	0.00128	0	109.6566	0	914310	0.00128	
0600-0700 938406 0.00124	0	121.1616	0.033012	921950	0.00127	0	112.7075	0.035490	918442	0.036536	
0700-0800 941892 0.00124	0	119.9762	0.033339	925866	0.00127	0	111.4853	0.036833	921536	0.036931	
0800-0900 944963 0.00124	0	118.9399	0.033630	928337	0.00127	0	110.6328	0.036149	924630	0.037196	
0900-1000 946600 0.00124	0	118.3725	0.033725	929366	0.00128	0	106.0837	0.037706	925660	0.037206	
1000-1100 946295 0.00125	0	112.5917	0.035150	928337	0.00129	0	102.3359	0.039086	924424	0.038449	
1000-1200 943940 0.00127	0	105.8552	0.037791	925660	0.00129	0	103.1725	0.038786	921538	0.039327	
1200-1300 939637 0.00128	0	107.0215	0.038826	921538	0.00113	0	100.4088	0.039887	917203	0.04013	
1300-1400 933890 0.00129	0	100.7333	0.039712	916170	0.00131	0	98.15081	0.040753	911415	0.040192	
1400-1500 927514 0.0013	0	98.6940	0.040529	910174	0.00131	0	99.88345	0.040446	905204	0.040131	
1500-1600 920712 0.0013	0	100.6491	0.039722	903961	0.00131	0	101.7234	0.039322	899983	0.040131	
1600-1700 914310 0.0013	0	102.5382	0.039099	898153	0.00131	0	103.4059	0.038632	892733	0.04013	
1700-1800 908518 0.0013	0	104.2995	0.038354	892753	0.00113	0	109.2599	0.036606	887347	0.04013	
1800-1900 901168 0.0013	0	105.6320	0.009466	888387	0.00113	0	110.2069	0.009032	883105	0.04013	
1900-2000 901265 0.0013	0	106.5412	0.009306	885266	0.00113	0	111.7501	0.008948	880016	0.04013	
2000-2100 900228 0.0013	0	106.8936	0.009387	883809	0.00131	0	108.0257	0.009257	875660	0.04013	
2100-2200 901265 0.0013	0	106.5412	0.009386	884226	0.00131	0	107.8869	0.009268	878811	0.040131	
2200-2300 904168 0.0013	0	105.6320	0.009466	886099	0.00131	0	106.2802	0.009321	881102	0.040131	
2300-0000 908104 0.00129	0	108.5267	0.009214	889635	0.00131	0	107.7518	0.009280	884642	0.040131	

TABLE 15. CONTINUED

HOUR	MODULUS	STRAIN	AUGUST			SEPTEMBER			OCTOBER		
			PASSES (n)	H	n/N	MODULUS	STRAIN	PASSES (n)	N	MODULUS	STRAIN
0000-0100	867757	0.00132	0	109.1983	0	846018	0.00223	0	8.490351	0	881935
0100-0200	903754	0.0013	0	105.7611	0	889219	0.00216	0	8.720453	0	913070
0200-0300	908104	0.00129	0	103.52b ⁷	0	896700	0.00212	0	9.363378	0	919681
0300-0400	912656	0.00129	0	107.091	0	903754	0.00209	0	9.847167	0	925660
0400-0500	916290	0.00128	0	110.063	0	910381	0.00205	0	10.636395	0	931218
0500-0600	920506	0.00127	0	113.1793	0	916539	0.00202	0	11.24532	0	936560
0600-0700	924424	0.00127	4	111.3054	0.034744	922382	0.002	11.62262	0.344156	941052	0.00326
0700-0800	928337	0.00126	4	115.1140	0.034748	927720	0.00197	12.34396	0.242401	955577	0.003235
0800-0900	931218	0.00126	4	114.1673	0.035036	932667	0.00196	12.48323	0.240429	949666	0.00341
0900-1000	933069	0.00127	4	109.1639	0.036842	936649	0.00197	12.04900	0.331917	952228	0.003168
1000-1100	932557	0.00128	4	105.0891	0.038062	937986	0.0002	11.1350	0.559322	954350	0.00315
1100-1200	930395	0.00129	4	101.9317	0.03931	937380	0.00204	10.08348	0.566688	953248	0.00447
1200-1300	925866	0.0013	4	99.16386	0.040337	934506	0.0021	8.794656	0.454821	930891	0.00304
1300-1400	919887	0.00131	4	97.0957	0.411195	929572	0.00215	7.929577	0.504440	931835	0.004428
1400-1500	913070	0.00131	4	99.04140	0.040387	923187	0.0022	7.199564	0.555389	905613	0.03252
1500-1600	905826	0.00131	4	101.1662	0.039538	916170	0.00224	6.714447	0.595220	883601	0.00125
1600-1700	898703	0.00131	4	103.2315	0.038147	909346	0.00226	6.551808	0.410518	869635	0.00126
1700-1800	892753	0.0013	4	109.2219	0.036806	903546	0.00226	6.664190	0.500195	869312	0.00128
1800-1900	885071	0.0013	1	110.8452	0.039021	890259	0.00246	3.575666	0.279668	862536	0.000129
1900-2000	885058	0.0013	1	111.8201	0.038942	874850	0.00246	4.753321	0.210383	865460	0.000131
2000-2100	883609	0.00131	1	108.0216	0.039257	861834	0.00236	6.031572	0.165794	871304	0.000132
2100-2200	885558	0.00131	1	107.6168	0.039252	862237	0.00231	6.765559	0.142811	879019	0.000132
2200-2300	887271	0.00131	1	106.8786	0.039273	865231	0.00228	7.152755	0.139214	887555	0.000131
2300-0000	892130	0.00131	1	105.3583	0.039491	871304	0.00224	7.675910	0.130219	895869	0.00013
DECEMBER											
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N						
0000-0100	970413	0.00118	0	141.9930	0						
0100-0200	971830	0.00118	0	141.4420	0						
0200-0300	945257	0.00118	0	140.5049	0						
0300-0400	976883	0.00117	0	145.5649	0						
0400-0500	979304	0.00117	0	144.6079	0						
0500-0600	981521	0.00116	0	150.0424	0						
0600-0700	983736	0.00116	4	149.1438	0.026366						
0700-0800	985726	0.00116	4	148.3347	0.026326						
0800-0900	987755	0.00116	4	147.5320	0.027112						
0900-1000	989160	0.00115	4	153.4765	0.026062						
1000-1100	989963	0.00116	4	146.6567	0.027724						
1100-1200	989160	0.00117	4	140.7997	0.028109						
1200-1300	986319	0.00118	4	135.9612	0.029420						
1300-1400	982125	0.00119	4	131.8430	0.030339						
1400-1500	977085	0.00121	4	122.9759	0.032226						
1500-1600	971425	0.00121	4	124.8947	0.032026						
1600-1700	965954	0.00122	4	121.6770	0.032873						
1700-1800	961689	0.00122	4	123.1204	0.032488						
1800-1900	958638	0.00122	4	124.1674	0.008053						
1900-2000	952824	0.00121	4	129.6771	0.002721						
2000-2100	958638	0.00121	4	129.3938	0.002728						
2100-2200	960876	0.0012	4	134.0399	0.002461						
2200-2300	963518	0.0012	4	133.0227	0.007515						
2300-0000	966157	0.00119	4	137.7303	0.007510						

TABLE 16. COMPUTATIONS FOR THE 3 INCH PAVEMENT AT A CONSTANT TEMPERATURE

TEMPERATURE (FARENHEIT)	MODULUS	STRAIN	PASSES(n)	N	n/N
30	1336407	0.00147	54	20.17	2.7
35	1239077	0.00153	54	20.20	2.7
40	1167035	0.00157	54	20.83	2.6
45	1066639	0.00164	54	21.28	2.5
50	956828	0.00171	54	23.07	2.3
55	841739	0.00181	54	24.43	2.2
60	725642	0.00191	54	27.73	1.9
65	612585	0.00203	54	32.11	1.7
70	506090	0.00215	54	40.08	1.3
75	408923	0.00227	54	53.92	1.0
80	322966	0.00239	54	78.17	0.7
85	249193	0.00248	54	129.69	0.4
90	187738	0.00253	54	249.63	0.2
95	138035	0.00251	54	589.49	0.1
100	99001	0.00242	54	1715.77	0.0
105	69232	0.00224	54	6550.26	0.0
110	47184	0.00198	54	33723.11	0.0
115	31327	0.00166	54	242522.8	0.0
120	20254	0.00133	54	2348589.5	0.0

TABLE 17. COMPUTATIONS FOR THE 5 INCH PAVEMENT AT A CONSTANT TEMPERATURE

TEMPERATURE (FARENHEIT)	MODULUS	STRAIN	PASSES(n)	N	n/N
30	1336407	0.000817	54	380.35	0.1
35	1239077	0.000847	54	388.50	0.14
40	1130926	0.000883	54	402.45	0.13
45	1215424	0.000854	54	392.49	0.14
50	896323	0.000977	54	450.95	0.12
55	777377	0.001030	54	506.05	0.11
60	662080	0.001100	54	558.76	0.10
65	553452	0.001160	54	690.75	0.08
70	453866	0.001230	54	874.34	0.06
75	364968	0.001300	54	1185.20	0.05
80	287654	0.001350	54	1850.79	0.03
85	222123	0.001380	54	3302.55	0.02
90	167977	0.001390	54	6707.36	0.01
95	124357	0.001350	54	17296.24	0.00
100	90094	0.001270	54	55415.79	0.00
105	63852	0.001130	54	248733.5	0.00
110	44253	0.000936	54	1694728	0.00

TABLE 18. COMPUTATIONS FOR THE 10 INCH PAVEMENT AT A
CONSTANT TEMPERATURE

TEMPERATURE (FARENHEIT)	MODULUS	STRAIN	PASSES(n)	N	n/N
30	1336407	0.00102	54	125.40	0.43
35	1239077	0.00106	54	126.56	0.43
40	1130926	0.00111	54	128.20	0.42
45	1015424	0.00116	54	137.06	0.39
50	896323	0.00123	54	142.58	0.38
55	777377	0.00131	54	152.06	0.36
60	662080	0.00139	54	173.43	0.31
65	553452	0.00149	54	197.55	0.27
70	453866	0.00159	54	242.22	0.22
75	364968	0.00169	54	319.21	0.17
80	287654	0.00178	54	464.44	0.12
85	222123	0.00186	54	742.47	0.07
90	167977	0.00190	54	1405.59	0.04
95	124357	0.00189	54	3215.97	0.02
100	90094	0.00181	54	9424.52	0.01
105	63852	0.00165	54	37472.00	0.001
110	44253	0.00139	54	234641.74	0.0002

TABLE 19. COMPUTATION OF CONVERSION FACTORS FOR THE 3 INCH PAVEMENTS

HOMESTEAD			MINOT			WILLIAMS		
MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR	
1	68.54	58.23	0.85	1	6.88	46.10	6.70	
2	69.54	58.44	0.84	2	26.33	43.49	1.65	
3	72.83	59.40	0.82	3	43.30	40.79	0.94	
4	76.25	59.60	0.78	4	56.46	39.08	0.69	
5	78.67	59.61	0.76	5	72.83	38.43	0.53	
6	82.04	60.03	0.73	6	70.38	38.59	0.55	
7	83.67	60.36	0.72	7	70.46	38.68	0.55	
8	83.96	60.86	0.72	8	46.83	40.41	0.86	
9	83.96	60.29	0.72	9	29.46	42.96	1.46	
10	79.58	60.36	0.76					
11	71.42	60.27	0.84					
12	70.50	58.35	0.83					

WRIGHT-PATTERSON			WILLIAMS				
MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
2	33.17	42.54	1.28	1	45.38	57.62	1.27
3	43.04	40.91	0.95	2	58.42	57.83	0.99
4	54.25	39.11	0.72	3	62.46	58.42	0.94
5	64.33	38.69	0.60	4	71.08	61.54	0.87
6	74.33	38.19	0.51	5	80.33	62.77	0.78
7	77.63	38.19	0.49	6	93.46	64.00	0.68
8	76.33	38.40	0.50	7	91.58	67.01	0.73
9	68.96	43.03	0.62	8	87.46	64.02	0.73
10	57.83	42.88	0.74	9	76.04	61.78	0.81
11	44.75	40.71	0.91	10	63.00	59.24	0.94
12	34.50	42.32	1.23	11	55.83	58.14	1.04

TABLE 20. COMPUTATION OF CONVERSION FACTORS FOR THE 5 INCH PAVEMENTS

HOMESTEAD			MINOT			WILLIAMS		
MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.
1	68.54	53.70	0.78	2	14.46	43.22	2.99	
2	69.54	54.90	0.79	3	26.33	40.24	1.53	
3	72.83	55.32	0.76	4	43.30	37.02	0.86	
4	76.25	56.20	0.74	5	56.46	22.26	0.39	
5	78.67	56.44	0.72	6	66.54	34.04	0.51	
6	82.04	57.20	0.70	7	72.83	34.70	0.48	
7	83.67	57.71	0.69	8	70.38	34.55	0.49	
9	83.96	57.36	0.68	9	70.46	34.56	0.49	
10	79.58	56.93	0.72	10	46.83	36.31	0.78	
11	71.42	46.11	0.65	12	14.63	43.67	2.99	
12	70.50	53.83	0.76					
WRIGHT-PATTERSON								
MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.
1	29.42	39.09	1.33	1	45.38	53.28	1.17	
2	43.04	36.80	0.86	2	58.42	53.73	0.92	
3	54.25	34.96	0.64	3	62.46	54.07	0.87	
4	64.33	34.46	0.54	4	71.08	58.72	0.83	
5	74.33	34.57	0.47	5	80.33	60.57	0.75	
6	77.63	34.93	0.45	6	89.42	63.48	0.71	
7	76.33	34.91	0.46	7	93.46	62.27	0.67	
9	68.96	38.11	0.55	8	91.58	66.50	0.73	
10	57.83	46.15	0.80	9	87.45	61.78	0.71	
11	44.75	37.13	0.83	10	76.04	58.71	0.77	
12	34.50	39.13	1.13	11	63.00	55.55	0.88	
				12	55.833	54.18107	0.979413	

TABLE 21. COMPUTATION OF CONVERSION FACTORS FOR THE 10 INCH PAVEMENTS

HOMESTEAD

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	68.54	47.07	0.69	3	26.33	46.09	1.75
3	72.83	47.54	0.65	4	43.30	39.30	0.91
4	76.25	48.15	0.63	5	56.46	33.21	0.59
5	78.67	48.58	0.62	6	66.54	29.53	0.44
6	82.04	49.81	0.61	7	72.83	28.19	0.39
7	83.67	50.30	0.60	8	70.38	29.05	0.41
8	83.96	50.86	0.61	9	46.83	37.22	0.79
9	83.96	49.57	0.59				
10	79.58	48.97	0.62				
12	70.50	47.14	0.67				

WRIGHT-PATTERSON

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR	MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	29.42	45.67	1.55	1	45.38	48.79	1.08
3	43.04	38.45	0.89	2	58.42	48.20	0.83
4	54.25	33.24	0.61	3	62.45	47.66	0.76
5	64.33	30.07	0.47	4	71.08	50.01	0.70
6	74.33	28.13	0.38	5	80.33	52.17	0.65
7	77.63	26.49	0.37	6	89.42	55.84	0.62
8	76.33	28.37	0.37	7	93.46	55.60	0.59
10	57.83	36.21	0.63	8	91.58	55.60	0.61
12	34.50	43.74	1.27	9	87.45	55.60	0.64
				10	76.04	49.57	0.65
				12	55.83	48.40	0.87

WILLIAMS

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	45.38	48.79	1.08
2	58.42	48.20	0.83
3	62.45	47.66	0.76
4	71.08	50.01	0.70
5	80.33	52.17	0.65
6	89.42	55.84	0.62
7	93.46	55.60	0.59
8	91.58	55.60	0.61
9	87.45	55.60	0.64
10	76.04	49.57	0.65
12	55.83	48.40	0.87

TABLE 22. SUMMARY OF LINEAR REGRESSION ANALYSIS

BASE	m	c	r square
HOMESTEAD	3 -0.009	1.442	.98
	5 -0.005	1.094	.38
	10 -0.005	1.05	.97
WILLIAMS	3 -.0017	1.723	.94
	5 -.009	1.454	.9
	10 -.008	1.346	.88
MINOT	3 -.022	2.066	.91
	5 -.041	3.11	.91
	10 -.027	2.232	.91
WRIGHT-PAT3	3 -.01	1.633	.92
	5 -.016	1.657	.91
	10 -.022	1.98	.89

CONVERSION FACTOR = m X(AIR TEMP) + c

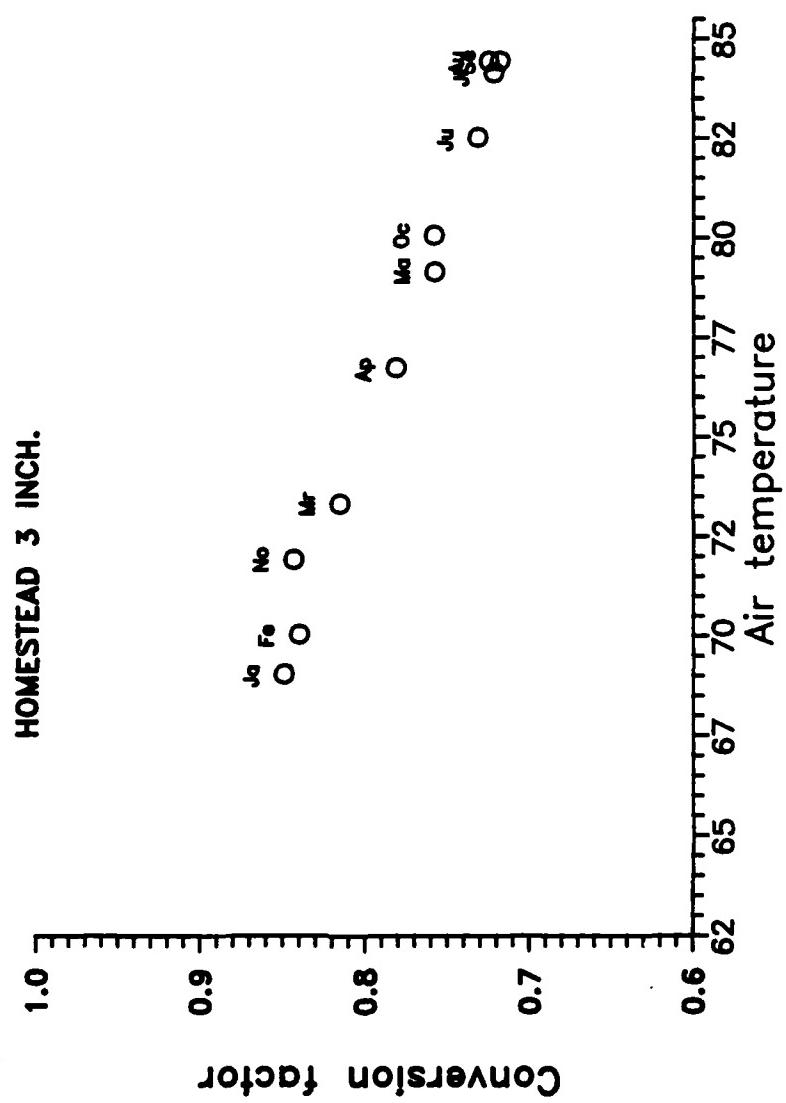


FIGURE 1. Conversion factor as a function of air temperature.

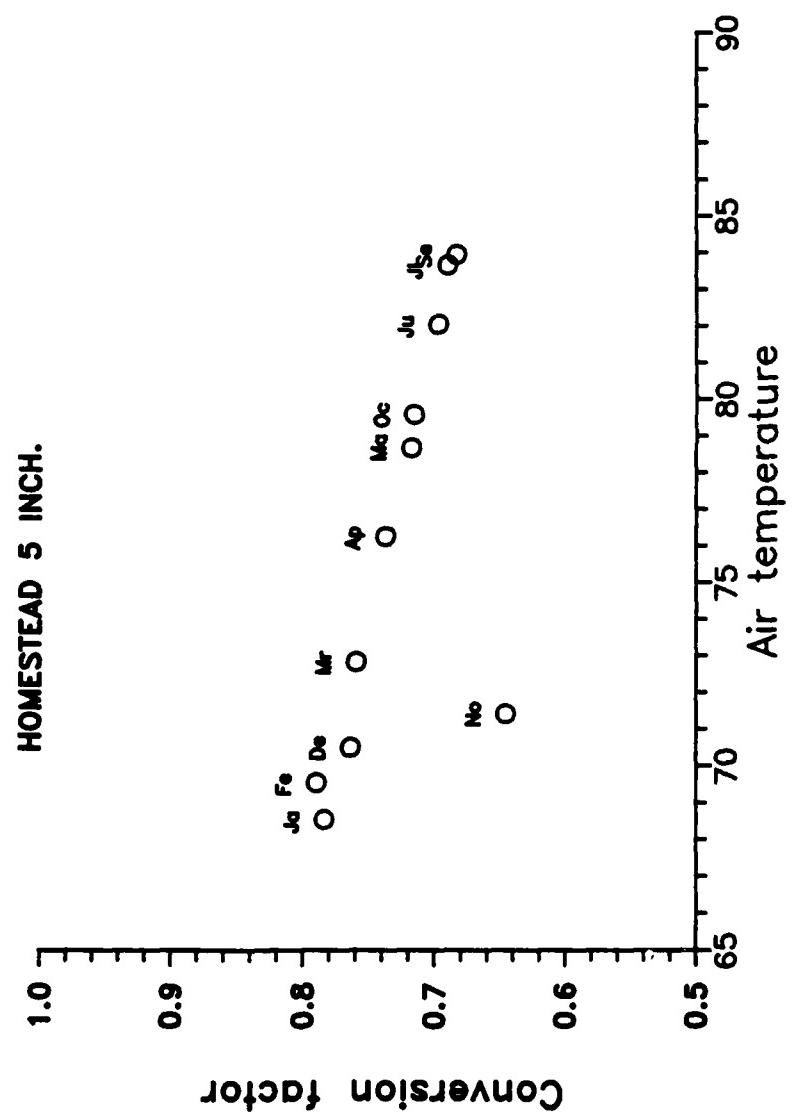


FIGURE 2. Conversion factor as a function of air temperature.

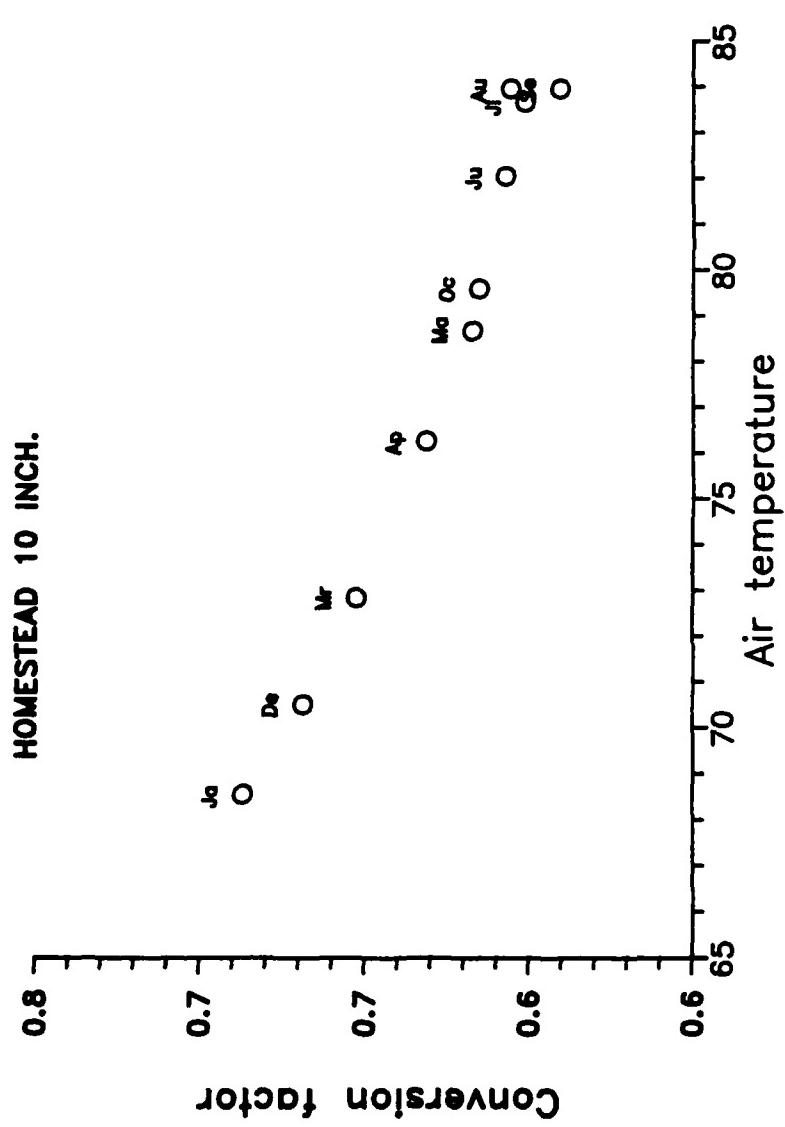


FIGURE 3. Conversion factor as a function of air temperature.

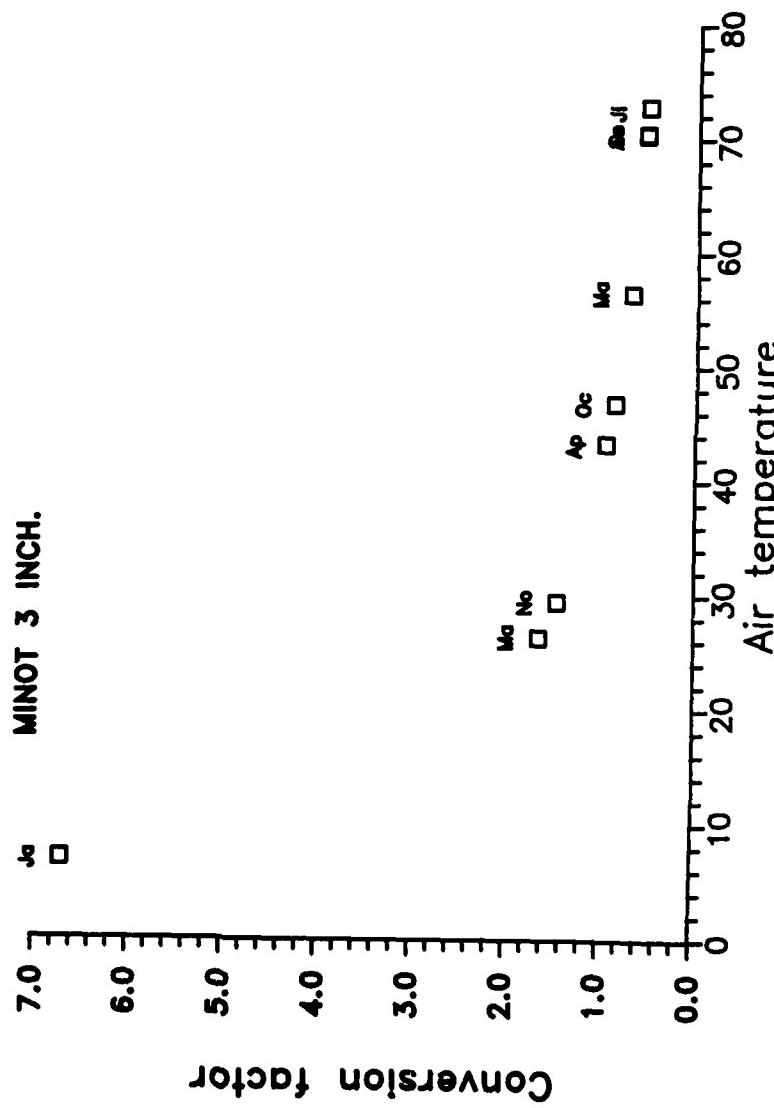


FIGURE 4. Conversion factor as a function of air temperature.

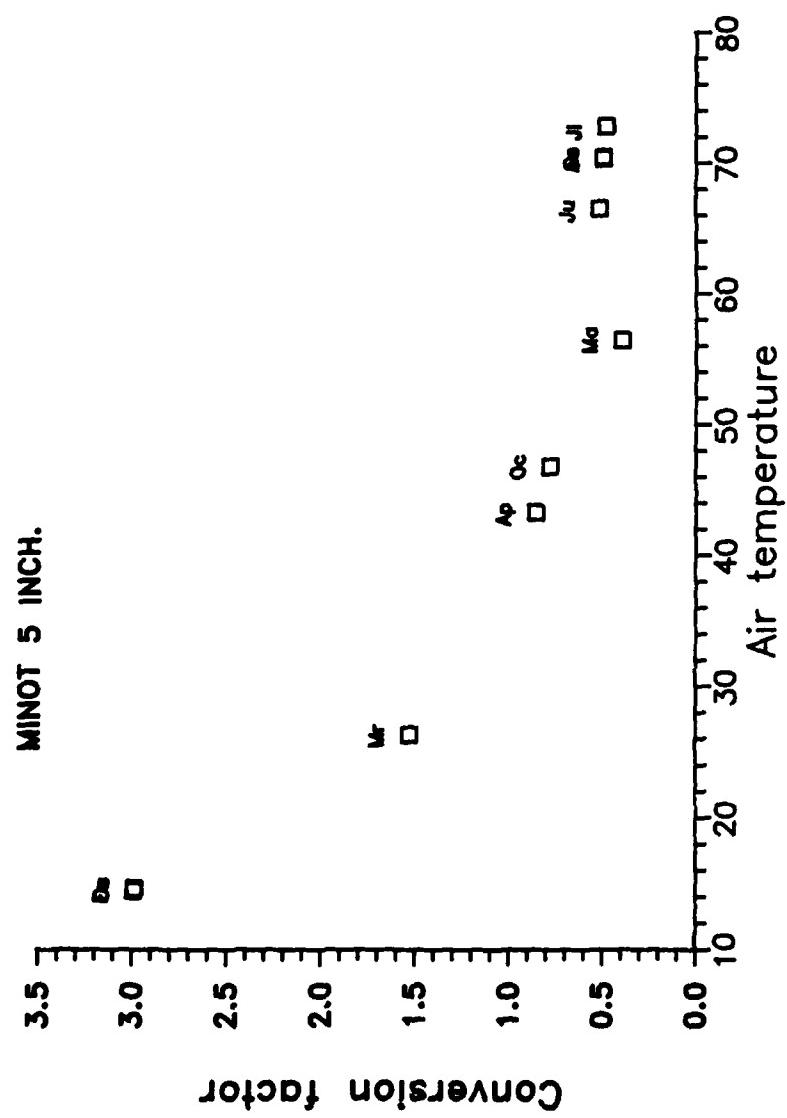


FIGURE 5. Conversion factor as a function of air temperature.

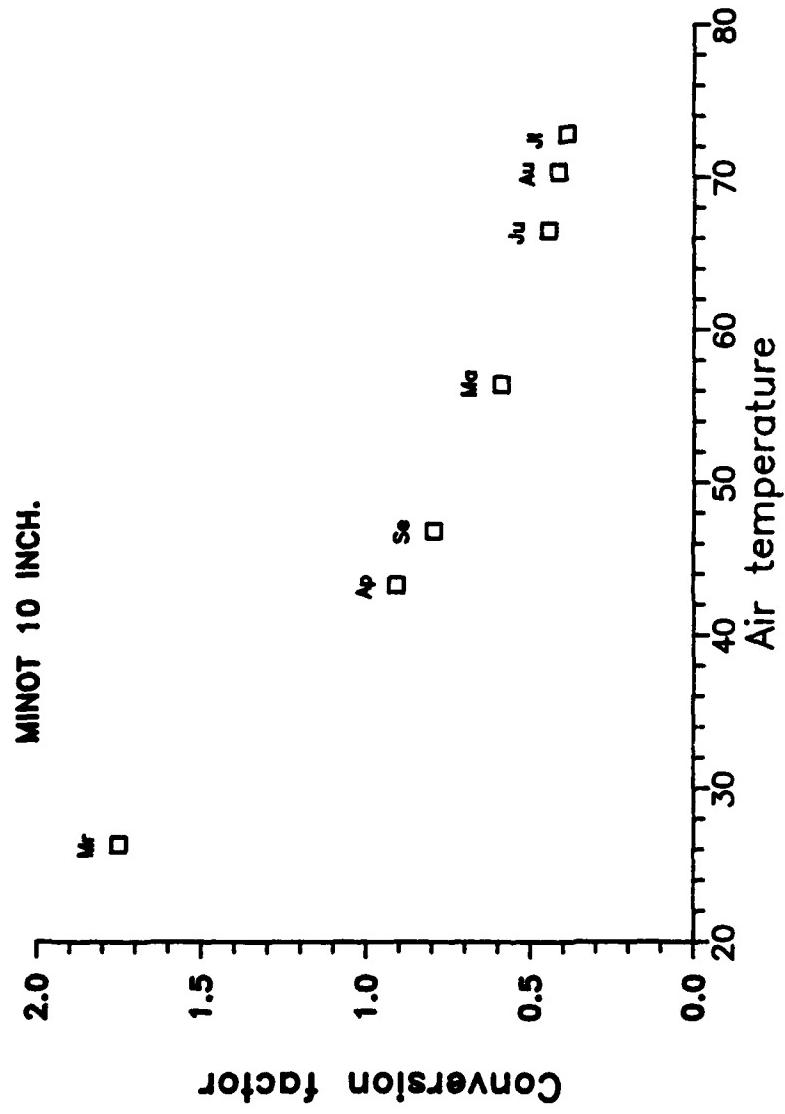


FIGURE 6. Conversion factor as a function of air temperature.

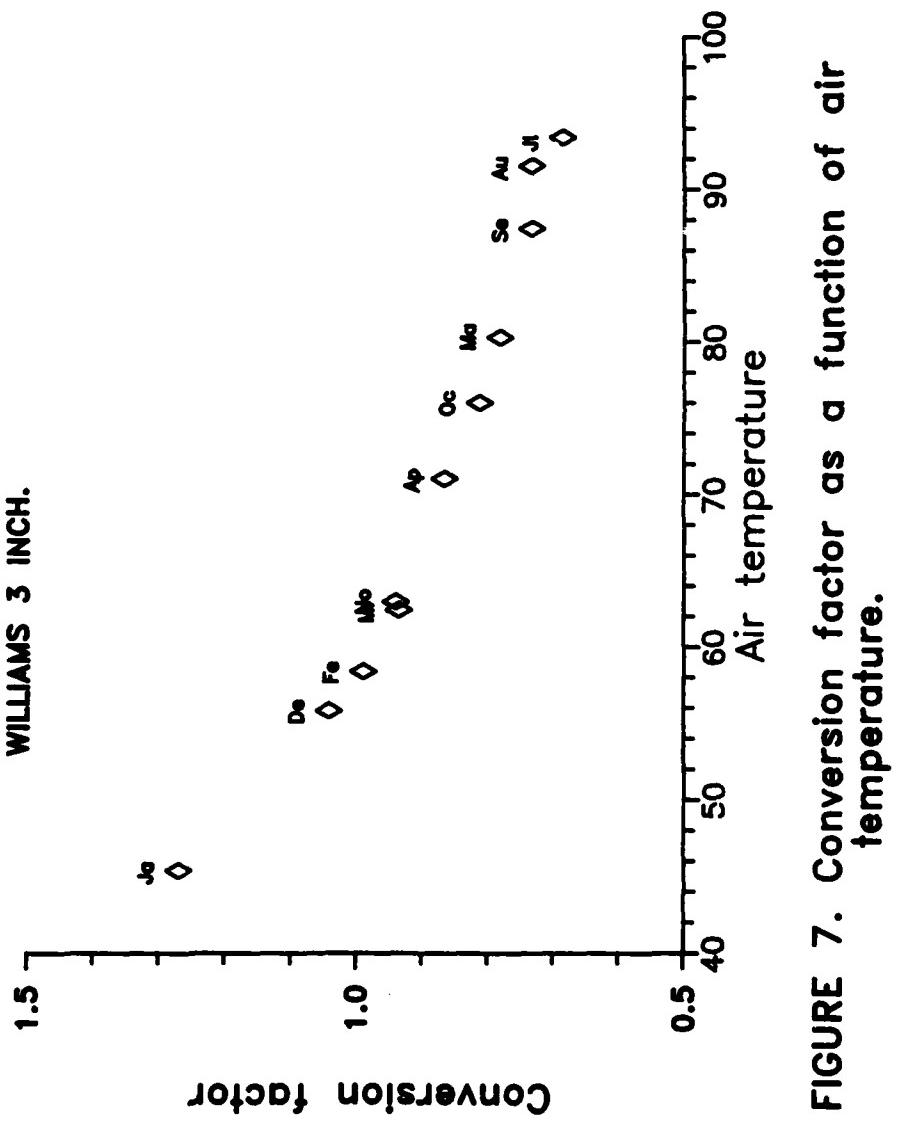


FIGURE 7. Conversion factor as a function of air temperature.

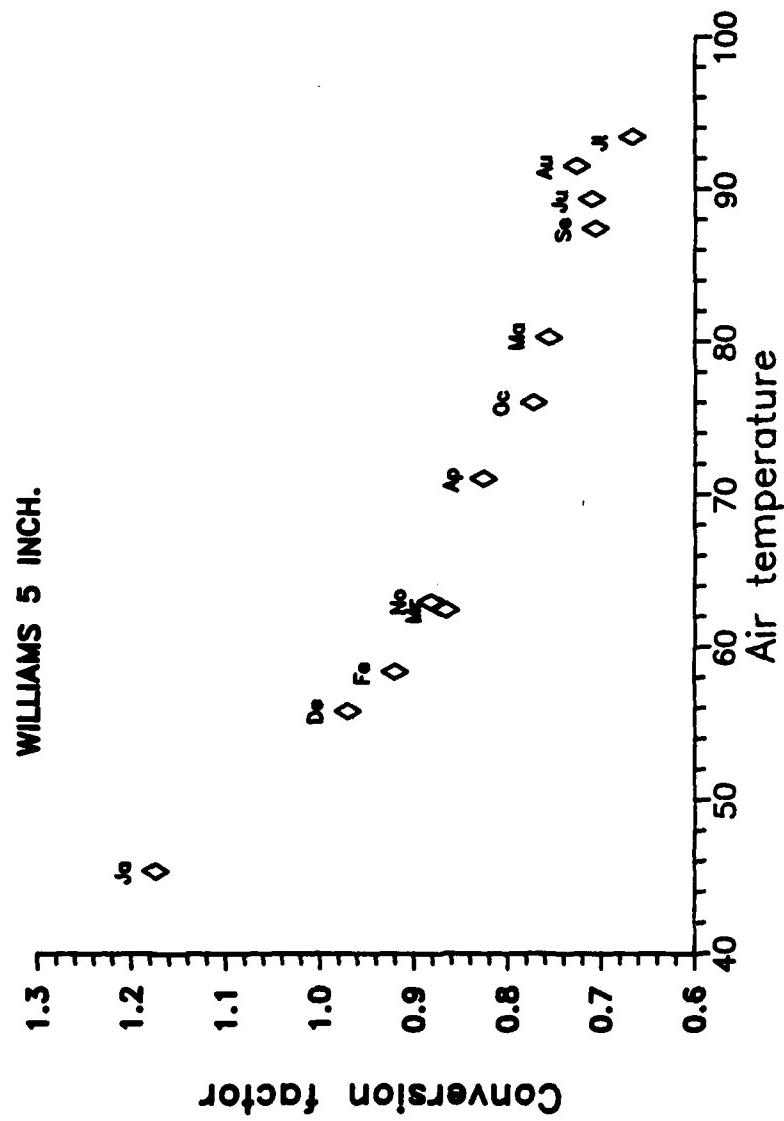


FIGURE 8. Conversion factor as a function of air temperature.

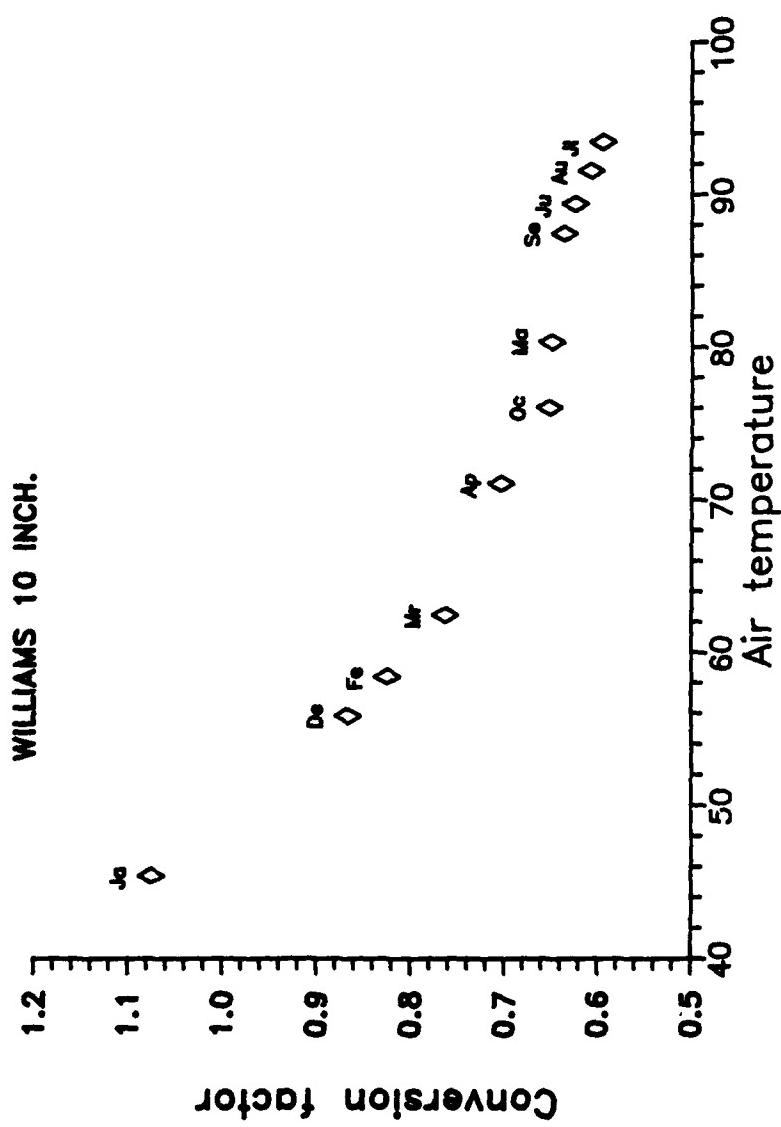


FIGURE 9. Conversion factor as a function of air temperature.

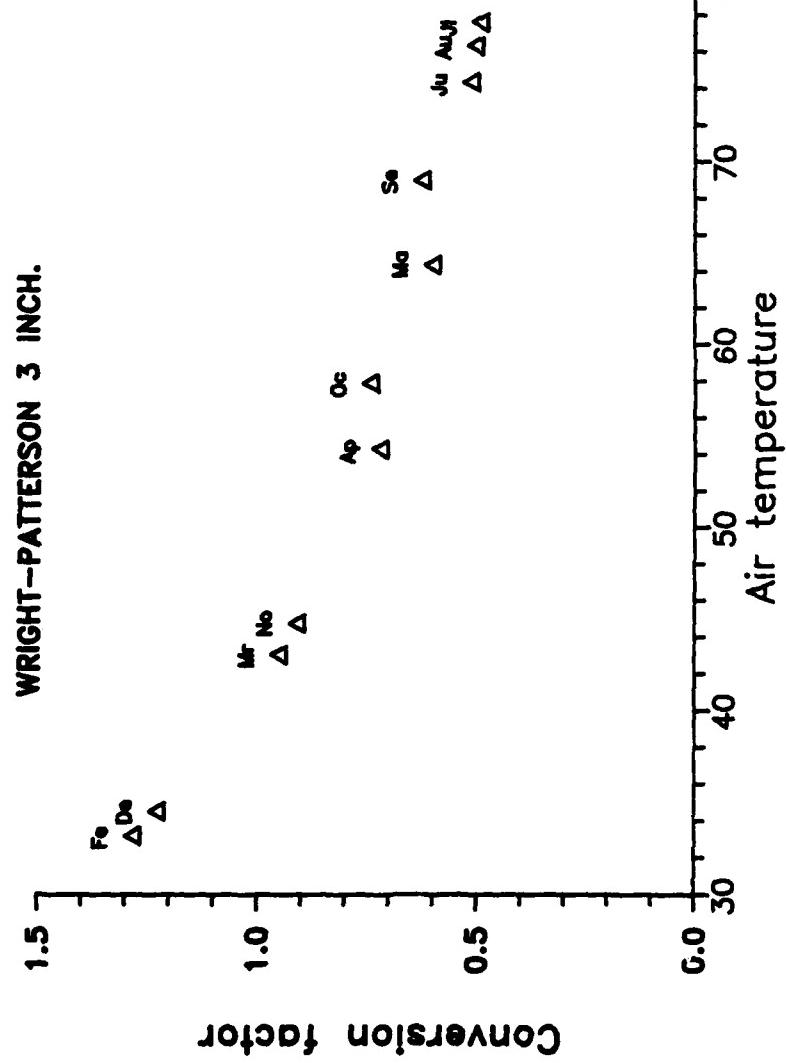


FIGURE 10. Conversion factor as a function of air temperature.

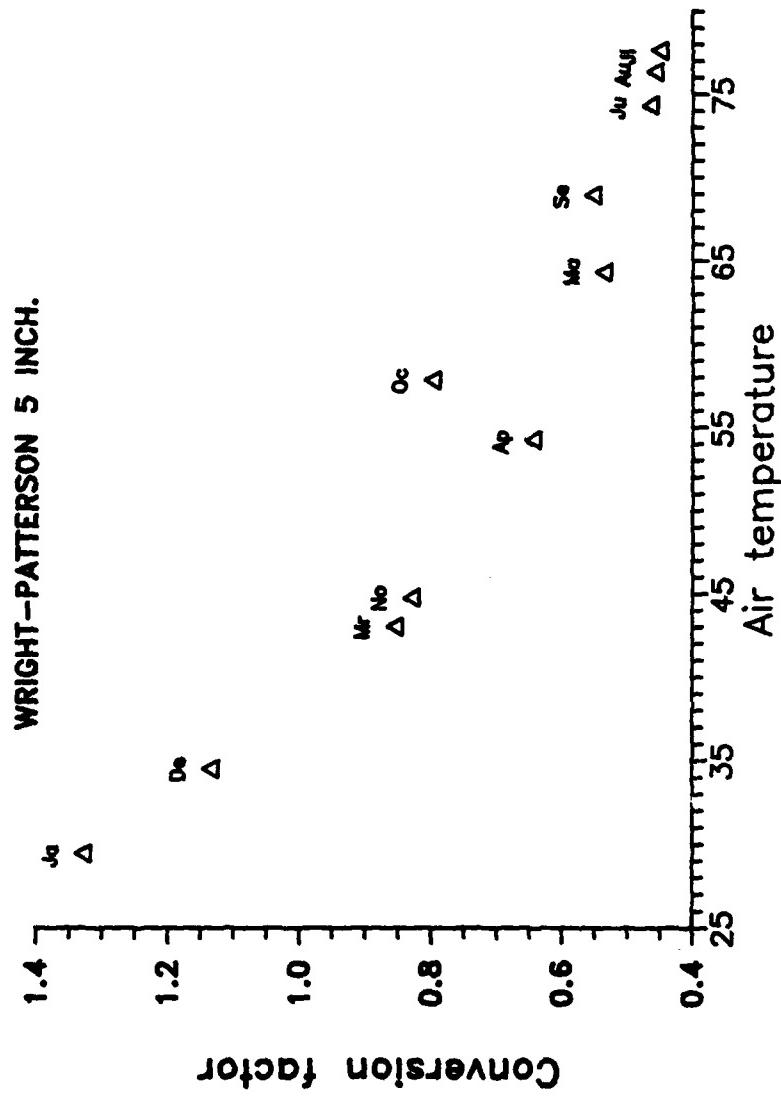


FIGURE 11. Conversion factor as a function of air temperature.

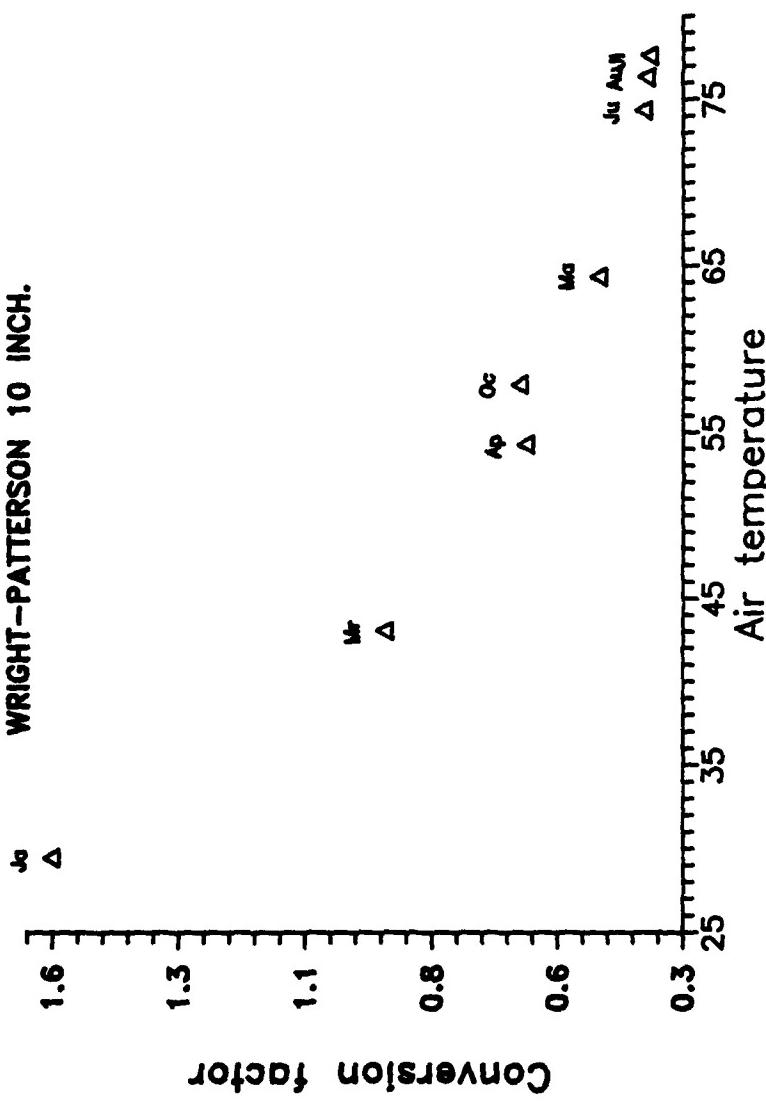


FIGURE 12. Conversion factor as a function of air temperature.